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UNITED STATES DEPARTMENT OF AGRICULTURE
MISCELLANEOUS PUBLICATION No. 459

**LIST OF BULLETINS OF THE
AGRICULTURAL EXPERIMENT STATIONS
FOR THE CALENDAR YEARS
1939 AND 1940**

By

CATHERINE E. PENNINGTON, Junior Librarian
Office of Experiment Stations



WASHINGTON, D. C., DECEMBER 1941

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CONTENTS

	Page
List of bulletins-----	1
Index of authors-----	35
Index of subjects-----	47

LIST OF BULLETINS

ALABAMA AGRICULTURAL EXPERIMENT STATION, AUBURN

BULLETINS

247. Rural property tax problems in Alabama. C. M. Clark. June 1940.
248. Control of the major pests of the satsuma orange in south Alabama. L. L. English and G. F. Turnipseed. June 1940.

ARIZONA AGRICULTURAL EXPERIMENT STATION, TUCSON

BULLETINS

162. Grapes in Arizona. A. H. Finch, R. H. Hilgeman, H. F. Tate, R. B. Streets, and L. P. Wehrle. Feb. 1939.
163. Arizona's farm laborers. E. D. Tetreau. May 1939.
164. First annual report of the Arizona feed control office, year ending December 31, 1938. W. T. McGeorge, E. O. Foster, and R. D. Taylor. Apr. 1939.
165. First annual report of the Arizona fertilizer control office, year ending December 31, 1938. W. T. McGeorge, E. O. Foster, and R. D. Taylor. Apr. 1939.
166. Small grain varieties for northern Arizona. A. T. Bartel and I. A. Briggs. May 1939.
167. American-Egyptian cotton, utilization, supplies, and prices. E. H. Pressley, Rodney Whitaker, and G. W. Barr. Jan. 1940.
168. Second annual report of the Arizona feed control office, year ending December 31, 1939. W. T. McGeorge, E. O. Foster, and R. D. Taylor. Jan. 1940.
169. Second annual report of the Arizona fertilizer control office, year ending December 31, 1939. W. T. McGeorge, E. O. Foster, and R. D. Taylor. Feb. 1940.
170. Rations for fattening cattle in Arizona. E. B. Stanley and A. H. Walker. Mar. 1940.

¹ This publication is a continuation of Department Bulletin 1199, the three supplements thereto, and Miscellaneous Publications 65, 128, 181, 232, 294, and 362. The publications listed can be obtained only from the stations issuing them.

TECHNICAL BULLETINS

80. Relative water requirement of Arizona range plants. W. G. McGinnies and J. F. Arnold. June 1939.
81. The development and use of the bone filter for removing fluorine from drinking water. H. V. Smith and W. B. Davey. June 1939.
82. Factors influencing the availability of native soil phosphate and phosphate fertilizers in Arizona soils. W. T. McGeorge. Sept. 1939.
83. Distribution and activity of *Azotobacter* in the range and cultivated soils of Arizona. W. P. Martin. Mar. 1940.
84. Some effects on animal nutrition of the ingestion of mineral oil. M. C. Smith and Harry Spector. Mar. 1940.
85. Fertilization of lettuce on alkaline-calcareous soils: Soil and plant studies. W. T. McGeorge, M. F. Wharton, and W. A. Frazier. May 1940.
86. Life history and ecology of the white-throated wood rat, *Neotoma albigula albigula* Hartley, in relation to grazing in Arizona. C. T. Vorhies and W. P. Taylor. June 1940.
87. The groundwater supply of the Eloy district in Pinal County, Arizona. G. E. P. Smith. June 1940.
88. Arizona's agricultural population. E. D. Tetreau. Dec. 1940.

ARKANSAS AGRICULTURAL EXPERIMENT STATION, FAYETTEVILLE

BULLETINS

369. Inequalities in the Arkansas property tax assessment system. E. E. Sparlin. Jan. 1939.
370. State-owned land in Arkansas. O. J. Hall. Jan. 1939.
371. Problems of water resources for rice irrigation. D. G. Carter and Kyle Engler. Feb. 1939.
372. Sickness and medical care among the negro population in a delta area of Arkansas. I. C. Wilson. Mar. 1939.
373. Biochemistry and pathology of avitaminosis: III, Enzymic efficiency in deficiency diseases. Barnett Sure, M. C. Kik, K. S. Buchanan, R. T. Harrelson, Jr., and R. M. Theis. Mar. 1939.
374. Some effects of manganese on eggshell quality. Malcolm Lyons. Mar. 1939.
375. Silicon content of wool in relation to dietary silicon. A. R. Patton. Mar. 1939.
376. Certain ecological factors and the cotton plant. Burt Johnson and C. H. Wadleigh. May 1939.
377. Biologies of Arkansas rice field mosquitoes. H. H. Schwardt. May 1939.
378. Response of American grapes to various treatments and vineyard practices. J. R. Cooper and J. E. Vaile. June 1939.
379. Grape varieties in Arkansas. J. E. Vaile. June 1939.
380. Influence of rainfall, cropping, and cultural methods on soil and water losses. R. P. Bartholomew, D. G. Carter, W. C. Hulburt, and L. C. Kapp. June 1939.
381. Apparatus for measurements of lengths of cotton fibers. Burt Johnson. June 1939.
382. Timing seasonal occurrence and abundance of the codling moth. Dwight Isely. June 1939.
383. Effects of fertilizer on stem rot of rice. E. M. Cralley. June 1939.
384. Land tenure in Arkansas: I, The farm tenancy situation. J. A. Baker and J. G. McNeely. Jan. 1940.
385. Termite damage, preventives and remedies. W. J. Baerg. Jan. 1940.
386. Fifty-first annual report, fiscal year ending June 30, 1939. C. O. Brannen. Feb. 1940.
387. Effects of inbreeding cotton with special reference to staple length and lint percentage. L. M. Humphrey. Mar. 1940.
388. Population trends and adjustments in Arkansas. W. H. Metzler. May 1940.
389. Seed treatments for corn, oats, and barley in Arkansas. V. H. Young and C. K. McClelland. May 1940.
390. Methods and rates of planting soybeans. C. K. McClelland. June 1940.
391. Longevity of urediospores of crown rust of oats. H. R. Rosen and L. M. Weetman. June 1940.
392. Manure experiments with vegetable crops in Arkansas. J. R. Cooper and V. M. Watts. June 1940.
393. Effects of interplanting legumes in corn. C. K. McClelland. June 1940.
394. Sickness and medical care among a rural bituminous coal-mining population of Arkansas. I. C. Wilson. June 1940.
395. Farm storage and marketing of rough rice in Arkansas. O. J. Hall. June 1940.

396. Volume tables for some Arkansas hardwoods. R. D. Stevens. June 1940.
397. Land tenure in Arkansas: II, Change in labor organization on cotton farms. J. G. McNeely and G. T. Barton. June 1940.
398. School services in rural communities in Washington County. J. L. Charlton. June 1940.
399. Farm credit in Hempstead County. E. E. Sparlin. June 1940.
400. Farm credit in Ashley County. E. E. Sparlin. June 1940.
401. Factorial design in plant nutrition experiments in the greenhouse. C. H. Wadleigh and W. H. Tharp. June 1940.
402. Varietal and cultural experiments with corn. C. K. McClelland. June 1940.
403. Rice variety experiments in Arkansas. Martin Nelson and C. R. Adair. June 1940.
404. Hardwood resources and industries in Arkansas. Hereford Garland. June 1940.
405. Science works for the farmer: Fifty-second annual report for the fiscal year ending June 30, 1940. W. R. Horlacher. Dec. 1940.

CALIFORNIA AGRICULTURAL EXPERIMENT STATION, BERKELEY

BULLETINS

627. Composition of common California foothill plants as a factor in range management. Aaron Gordon and A. W. Sampson. Mar. 1939.
628. Effect of storage, bulb size, spacing, and time of planting on production of onion seed. H. A. Jones and S. L. Emsweller. Apr. 1939.
629. Pythium root rot of milo and the development of resistant varieties. J. B. Kendrick and F. N. Briggs. May 1939.
630. Composition and characteristics of the agricultural population in California. G. M. Peterson. June 1939.
631. Physical and chemical properties of California honeys. J. E. Eckert and H. W. Allinger. Aug. 1939.
632. Five new peach varieties especially adapted to mild winters. J. W. Lesley. Dec. 1939.
633. Crown-grading experiments with asparagus. H. A. Jones and G. C. Hanna. Jan. 1940.
634. A new selective spray for the control of certain weeds. W. A. Westgate and R. N. Raynor. Feb. 1940.
635. The digestibility of ground prunes, winery pomace, avocado meal, asparagus butts, and fenugreek meal. A. H. Folger. Feb. 1940.
636. Investigations in the sulfuring of fruits for drying. J. D. Long, E. M. Mrak, and C. D. Fisher. July 1940.
637. Alien plants growing without cultivation in California. W. W. Robbins. July 1940.
638. Natural land divisions of Santa Cruz County, California, their utilization and adaptation. R. E. Storie. July 1940.
639. Commercial production of table wines. M. A. Amerine and M. A. Joslyn. July 1940.
640. Dairy management in California. Arthur Shultis. Aug. 1940.
641. Flax-management practices in Imperial Valley, with world statistics. Wallace Sullivan, H. L. Landerman, and G. A. Carpenter. Aug. 1940.
642. Economic problems affecting poultry marketing in California. J. M. Tinley and E. C. Voorhies. Oct. 1940.
643. Operation of orchard heaters. R. A. Kepner. Oct. 1940.
644. Investigations of caterpillars attacking tomatoes in northern California during 1939. A. E. Michelbacher, G. F. MacLeod and W. M. Hoskins. Nov. 1940.
645. The relative efficiency of spayed, open, and bred heifers in the feed lot. G. H. Hart, H. R. Guilbert, and H. H. Cole. Dec. 1940.

HILGARDIA

- Vol. 12, no. 3. Toxicity studies with arsenic in eighty California soils. A. S. Crafts and R. S. Rosenfels.—Arsenic fixation in relation to the sterilization of soils with sodium arsenite. R. S. Rosenfels and A. S. Crafts.—Toxicity studies with sodium chlorate in eighty California soils. A. S. Crafts. Jan. 1939.
- Vol. 12, no. 4. Host organs attacked by bacterial canker of stone fruits. E. E. Wilson and W. B. Hewitt.—Factors affecting development of the bacterial canker of stone fruits. E. E. Wilson.—Some factors affecting the susceptibility of plants to fire blight. H. E. Thomas and P. A. Ark. Jan. 1939.
- Vol. 12, no. 5. The use of chemical data in the prognosis of phosphate deficiency in soils. J. S. Burd and H. F. Murphy.—The role of kaolinite in phosphate fixation. H. F. Murphy. Feb. 1939.
- Vol. 12, no. 6. Water conduction from shallow water tables. R. E. Moore.—Soil macro-structure as affected by cultural treatments. R. C. Cole. Mar. 1939.

- Vol. 12, no. 7. Factors affecting the recovery of hydrocyanic acid from fumigated citrus tissues. E. T. Bartholomew, W. B. Sinclair, and B. E. Janes. May 1939.
- Vol. 12, no. 8. Factors affecting curly-top infectivity of the beet leafhopper, *Eutettix tenellus*. H. H. P. Severin. Sept. 1939.
- Vol. 12, no. 9. Breeding for resistance to onion downy mildew caused by *Peronospora destructor*. H. A. Jones, D. R. Porter, and L. D. Leach.—A genetic analysis of red seed-coat color in *Phaseolus vulgaris*. F. L. Smith. Oct. 1939.
- Vol. 12, no. 10. Some mosaic diseases of *Prunus* species. H. E. Thomas and T. E. Rawlins.—Mosaic diseases of the rose in California. H. E. Thomas and L. M. Massey. Nov. 1939.
- Vol. 12, no. 11. The rôle of surface tension and contact angle in the performance of spray liquids. Walter Ebeling. Nov. 1939.
- Vol. 13, no. 1. The chemical status of zinc in the soil, with methods of analysis. P. L. Hibbard. Jan. 1940.
- Vol. 13, no. 2. Factors affecting the total soluble solids, reducing sugars, and sucrose in watermelons. D. R. Porter, C. S. Bisson, and H. W. Allinger.—Variation in solids of the juice from different regions in melon fruits. G. W. Scott and J. H. MacGillivray. Feb. 1940.
- Vol. 13, no. 3. Effect of *Bathyplectes curculionis* on the alfalfa-weevil population in lowland middle California. A. E. Michelbacher.—The apparent climatic limitations of the alfalfa weevil in California. A. E. Michelbacher and John Leighly. Apr. 1940.
- Vol. 13, no. 4. Nitrate concentration and ion balance in relation to citrus nutrition. H. D. Chapman and G. F. Liebig, Jr. June 1940.
- Vol. 13, no. 5. Developmental anatomy of the fleshy storage organ of *Daucus carota*. Katherine Esau.—Structure of end walls in differentiating vessels. Katherine Esau and W. B. Hewitt.—Comparative histogenesis of vegetative and floral apices in *Amygdalus communis*, with special reference to the carpel. R. M. Brooks. Aug. 1940.
- Vol. 13, no. 6. Recent contributions of insect physiology to insect toxicology and control. W. M. Hoskins. Aug. 1940.
- Vol. 13, no. 7. Parasites of the black scale, *Saissetia oleae* in Africa. Harold Compere. Nov. 1940.

COLORADO AGRICULTURAL EXPERIMENT STATION, FORT COLLINS

BULLETINS

452. Looped wire for concrete reinforcement. A. R. Legault. Jan. 1939.
453. Economics of sugar beet production in Colorado. R. T. Burdick. June 1939.
454. The potato and tomato psyllid and its control on tomatoes. G. M. List. Sept. 1939.
455. Colorado's poisonous and injurious plants. L. W. Durrell and I. E. Newsom. Sept. 1939.
456. Analysis of fifty years' record of meteorological data taken at the Colorado Experiment Station, Fort Collins, Colorado. Maxwell Parshall. Oct. 1939.
457. Educational foundations for rural rehabilitation. R. W. Roskelley and O. F. Larson. Nov. 1939.
458. Orchard management in Colorado. E. P. Sandsten, F. M. Green, and L. R. Bryant. Jan. 1940.
459. Restoring Colorado's range and abandoned croplands. E. W. Nelson and W. O. Shepherd. Apr. 1940.
460. Possibilities for cattle income. R. T. Burdick. July 1940.
461. Foxtail millet in Colorado. J. J. Curtis, J. F. Brandon, and R. M. Weihing. Nov. 1940.
462. Population trends in Colorado. R. W. Roskelley. Sept. 1940.
463. Corn production in Colorado. W. H. Leonard, J. F. Brandon, and J. J. Curtis. Dec. 1940.

TECHNICAL BULLETINS

26. Color photography in soil studies. L. A. Brown and M. N. Langley. Aug. 1939.
27. Preparing and baking yellow sponge cake at different altitudes. W. E. Pyke and Gestur Johnson. Feb. 1940.

CONNECTICUT (STATE) AGRICULTURAL EXPERIMENT STATION, NEW HAVEN

BULLETINS

419. Hibernation of the corn ear worm in southern Connecticut. G. W. Barber. Jan. 1939.
420. The native elm bark beetle, *Hylurgopinus rufipes* (Eichhoff), in Connecticut. B. J. Kaston. Feb. 1939.

421. Annual report for the year ending October 31, 1938. W. L. Slate. Apr. 1939.
422. Tobacco substation at Windsor, report for 1938. P. J. Anderson, T. R. Swanback, and O. E. Street. Mar. 1939.
423. The soil characteristics of Connecticut land types. M. F. Morgan. May 1939.
424. Chemical investigations of the rhubarb plant. H. B. Vickery, G. W. Pucher, A. J. Wakeman, and C. S. Leavenworth. May 1939.
425. Commercial feeding stuffs, report on inspection, 1938. E. M. Bailey. May 1939.
426. The forty-third report on food products and the thirty-first report on drug products, 1938. E. M. Bailey. May 1939.
427. Volume tables, plantation grown white pine, *Pinus strobus*, L. in Connecticut. H. W. Hicock, A. D. Rhodes, and A. R. Olson. June 1939.
428. Connecticut State entomologist, thirty-eighth report, 1938. W. E. Britton. Aug. 1939.
429. Seasonal water and nitrate leachings in relation to soil and source of fertilizer nitrogen: (A second report on Windsor lysimeter series "A"). M. F. Morgan and O. E. Street. Oct. 1939.
430. Commercial fertilizers, report for 1939. E. M. Bailey. Nov. 1939.
431. Tetranychidae of Connecticut. Philip Garman. Jan. 1940.
432. Diseases and decays of Connecticut tobacco. P. J. Anderson. Feb. 1940.
433. Tobacco substation at Windsor, report for 1939. P. J. Anderson, T. R. Swanback, and O. E. Street. Mar. 1940.
434. Connecticut State entomologist, thirty-ninth report, 1939. R. B. Friend. June 1940.
435. The improvement of naturally cross-pollinated plants by selection in self-fertilized lines: III, Investigations with vegetatively propagated fruits. D. F. Jones and W. R. Singleton. July 1940.
436. Commercial feeding stuffs, report on inspection, 1939. E. M. Bailey. June 1940.
437. The forty-fourth report on food products and the thirty-second report on drug products, 1939. E. M. Bailey. Sept. 1940.
438. Annual report for the year ending October 31, 1939. W. L. Slate. Sept. 1940.
439. Soil management for intensive vegetable production on sandy Connecticut Valley land. M. F. Morgan, and H. G. M. Jacobson. Oct. 1940.
440. The biology of *Anasa tristis* DeGeer, with particular reference to the Tachinid parasite, *Trichopoda pennipes* Fabr. R. L. Beard. Nov. 1940.
441. Commercial fertilizers, report for 1940. E. M. Bailey. Oct. 1940.
442. Chemical investigations of the tobacco plant. VIII, The effect upon the composition of the tobacco plant of the form in which nitrogen is supplied. H. B. Vickery, G. W. Pucher, A. J. Wakeman, and C. S. Leavenworth. Nov. 1940.

CONNECTICUT (STORRS) AGRICULTURAL EXPERIMENT STATION, STORRS

BULLETINS

229. Nutritional encephalomalacia in chicks and certain related disorders of domestic birds, a monograph. A. M. Pappenheimer, Marianne Goettsch, and Erwin Jungherr. Jan. 1939.
230. Studies of suburbanization in Connecticut; 3, Wilton, a rural town near metropolitan New York. N. L. Whetten. Feb. 1939.
231. Infectious bovine mastitis: 7, Characteristics of udder staphylococci. W. N. Plastridge, E. O. Anderson, L. F. Williams, and F. J. Weirether. Jan. 1939.
232. Studies on the Creeper fowl: XII, Size of body, organs and long bones of late homozygous Creeper embryos. Walter Landauer. July 1939.
233. Studies on the lethal mutation of Cornish fowl: Growth in length of long bones and increase in weight of the body and of some organs. Walter Landauer. July 1939.
234. A new method for the detection of neutralized cream, including a comparison with other methods. D. J. Hankinson and E. O. Anderson. July 1939.

DELAWARE AGRICULTURAL EXPERIMENT STATION, NEWARK

BULLETINS

216. (Technical bulletin 23.) Fruit jellies: X, The rôle of pectin: 6, Viscosity of dilute pectin solutions as affected by metallic salts and pH. G. L. Baker and M. W. Goodwin. Jan. 1939.
217. (Technical bulletin 24.) Terpene ethers in pyrethrum and rotenone fly sprays. R. L. Pierpont. Mar. 1939.
218. The marketing of chickens, turkeys, and eggs in Wilmington. H. S. Gabriel. Aug. 1939.

219. Protein levels of rations for White Leghorn pullets. A. E. Tomhave. Sept. 1939.
220. Annual report of the director for the fiscal year ending June 30, 1939. G. L. Schuster. Nov. 1939.
221. (Technical bulletin 25.) Rosin residue emulsion as a sticker for lead arsenate in horticultural sprays. R. L. Pierpont. Dec. 1939.
222. Relative effect upon peach production of nitrogen derived from certain fertilizer sources. C. A. McCue. Jan. 1940.
223. The effect of clipping and drying immature grasses on their yield and chemical composition. M. W. Goodwin. Mar. 1940.
224. An economic study of land utilization in Kent County, Delaware. R. O. Bausman. Apr. 1940.
225. (Technical bulletin 26.) Effect of ditching for mosquito control on the muskrat population of a Delaware tidewater marsh. L. A. Stearns, Donald MacCreary, and F. C. Daigh. Apr. 1940.
226. Report on the Tabanidae of Delaware. Donald MacCreary. May 1940.
227. Annual report of the director for the fiscal year ending June 30, 1940. G. L. Schuster. Nov. 1940.

FLORIDA AGRICULTURAL EXPERIMENT STATION, GAINESVILLE

BULLETINS

330. Downy mildew (blue mold) of tobacco. R. R. Kincaid and W. B. Tisdale. Jan. 1939.
331. (Technical bulletin.) Relation of magnesium deficiency in grapefruit leaves to yield and chemical composition of fruit. B. R. Fudge. Jan. 1939.
332. (Technical bulletin.) Nailhead spot of tomato caused by *Alternaria tomato* (Cke.) n. comb. G. F. Weber. Feb. 1939.
333. A fertility program for celery production on Everglades organic soils. J. R. Beckenbach. Mar. 1939.
334. The soils of Florida. J. R. Henderson. May 1939.
335. Some symptoms of citrus malnutrition in Florida. A. F. Camp and B. R. Fudge. June 1939.
336. Diseases of beans in southern Florida. G. R. Townsend. Sept. 1939.
337. Commercial control of citrus scab in Florida. G. D. Ruehle and W. L. Thompson. Sept. 1939.
338. Yield and composition of Everglades grass crops in relation to fertilizer treatment. J. R. Neller and Adrian Daane. Oct. 1939.
339. Farmers' cooperative associations in Florida: IV, The Florida citrus exchange system. H. G. Hamilton and M. A. Brooker. Nov. 1939.
340. (Technical bulletin.) Chemical studies on soils from Florida citrus groves. Michael Peech. Nov. 1939.
341. (Technical bulletin.) Distribution of macro and micro elements in some soils of peninsular Florida. L. H. Rogers, O. E. Gall, L. W. Gaddum, and R. M. Barnette. Dec. 1939.
342. Controlling tobacco downy mildew (blue mold) with paradichlorobenzene. W. B. Tisdale and R. R. Kincaid. Dec. 1939.
343. Flowering, fruiting, yield and growth habits of tung trees. R. D. Dickey and Walter Reuther. Feb. 1940.
344. A preliminary report on little-leaf of the peach in Florida, a zinc deficiency. R. D. Dickey and G. H. Blackmon. Mar. 1940.
345. Seasonal occurrence of tomato diseases in Florida. G. F. Weber and D. G. A. Kelbert. June 1940.
346. (Technical bulletin.) Enzootic bronchopneumonia of dairy calves. D. A. Sanders. June 1940.
347. Propagation of ornamental plants. J. V. Watkins. Aug. 1940.
348. (Technical bulletin.) Bacterial soft rot of potatoes in southern Florida. G. D. Ruehle. Sept. 1940.
349. Melanose of citrus and its commercial control. G. D. Ruehle and W. A. Kunz. Sept. 1940.
350. Papaya culture in Florida. H. S. Wolfe and S. J. Lynch. Oct. 1940.
351. Winter clover pastures for peninsular Florida. R. E. Blaser and F. T. Boyd. Nov. 1940.
352. Fertilizer experiments with potatoes on the marl soils of Dade County. W. M. Fifield and H. S. Wolfe. Dec. 1940.
353. Paperwhite narcissus: I, The growth cycle; II, some factors affecting bulb and flower production. R. D. Dickey. Dec. 1940.

GEORGIA AGRICULTURAL EXPERIMENT STATION, EXPERIMENT

BULLETINS

202. Farming conditions in Toombs County, Georgia. J. C. Elrod and Oscar Steanson. July 1939.
203. A study of farming in the Sandy Creek soil conservation demonstration area, with special reference to erosion control. W. E. Hendrix. Nov. 1939.
204. Results of cotton variety tests, 1936-1939. U. R. Gore. Feb. 1940.
205. Microscopical studies of peanuts with reference to processing. J. G. Woodroof and J. F. Leahy. July 1940.
206. Improved methods of tomato production in Georgia. H. L. Cochran. Aug. 1940.
207. Permanent pastures. R. P. Bledsoe and O. E. Sell. Sept. 1940.

HAWAII AGRICULTURAL EXPERIMENT STATION, HONOLULU

BULLETINS

81. Crossbreeding poultry for meat production, including a feeding test of taro waste and pol. C. M. Bice and B. A. Tower. Jan. 1939.
82. Grasses of the Hawaiian ranges. L. D. Whitney, E. Y. Hosaka, and J. C. Ripperton. May 1939.
83. Processing of the macadamia. R. H. Moltzau and J. C. Ripperton. June 1939.
84. Taro varieties in Hawaii. L. D. Whitney, F. A. I. Bowers, and Makoto Takahashi. Dec. 1939.
85. Beef cattle feeding trials in Hawaii. L. A. Henke, S. H. Work, and A. W. Burt. June 1940.

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228. Managing farm flock sheep for greater profit in southern Idaho. C. E. Favre and T. D. Phinney. Mar. 1939.
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230. Progress report of phosphate and other fertilizer investigations at the Aberdeen branch experiment station, University of Idaho. J. L. Toevs and G. O. Baker. Oct. 1939.
231. Markets and market preferences for Idaho potatoes. O. L. Mimms and G. W. Woodbury. June 1939.
232. Basic data for land classification. P. A. Eke. Dec. 1939.
233. Alkali reclamation investigations. R. S. Snyder, M. R. Kulp, G. O. Baker, and J. C. Marr. Oct. 1940.
234. Mechanized dusting equipment for pea weevil control. E. N. Humphrey. Feb. 1940.
235. The transmission of and resistance to fowl paralysis (lymphomatosis). E. M. Gildow, J. K. Williams, and C. E. Lampman. Apr. 1940.
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237. Farm electrification in Idaho. Hobart Beresford. Sept. 1940.
238. Bean improvement and bean diseases in Idaho. D. M. Murphy. Dec. 1940.

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450. Illinois corn performance tests, 1938. G. H. Dungan, A. L. Lang, J. H. Bigger, Benjamin Koehler, and Oren Bolin. Jan. 1939.
451. 4-H club work, effect on capability and personal quality. D. E. Lindstrom and W. M. Dawson. Jan. 1939.
452. Dextrose in commercial ice-cream manufacture. W. J. Corbett and P. H. Tracy. Mar. 1939.
453. Eighteen varieties of edible soybeans, their adaptability, acceptability, culture and characteristics. J. W. Lloyd and W. L. Burlison. Mar. 1939.
454. Some effects of the species and stage of maturity of plants on the forage consumption of grazing steers of various weights. W. P. Garrigus and H. P. Rusk. Apr. 1939.
455. Precooling rail shipments of Illinois peaches, with special reference to the use of ventilated packages. J. W. Lloyd. May 1939.
456. Soybeans, their effect on soil productivity. O. H. Sears. June 1939.

457. Composition of milk of Brown Swiss cows, with summary of data on the composition of milk from cows of other dairy breeds. O. R. Overman, O. F. Garrett, K. E. Wright, and F. P. Sanmann. July 1939.
458. A study of the cause of "buttons" in the J. H. Hale peach. M. J. Dorsey. Oct. 1939.
459. Accuracy of methods of sampling milk deliveries at milk plants. P. H. Tracy and S. L. Tuckey. Nov. 1939.
460. Winter wheat varieties for Illinois. G. H. Dungan, W. L. Burlison, Benjamin Koehler, and O. T. Bonnett. Dec. 1939.
461. Three new varieties of bush lima beans. W. A. Huelsen. Dec. 1939.
462. Eleven years of soybean investigations: Varieties, seeding, storage. W. L. Burlison, C. A. Van Doren, and J. C. Hackleman. Jan. 1940.
463. Illinois corn performance tests, 1939. R. R. Copper, G. H. Dungan, A. L. Lang, J. H. Bigger, Benjamin Koehler, and Oren Bolin. Jan. 1940.
464. Fertilizing onion sets, sweet corn, cabbage, and cucumbers in a four-year rotation. J. W. Lloyd and J. P. McCollum. Mar. 1940.
465. Legal aspects of farm tenancy in Illinois. H. W. Hannah and Joseph Ackerman. Apr. 1940.
466. Sweet-corn inbreds and crosses, released by the Illinois station. W. A. Huelsen. May 1940.
467. Twenty-five years of Illinois crop costs, 1913-1937. R. H. Wilcox and H. C. M. Case. Aug. 1940.
468. Factors affecting success of farm loans, a study of lending experience in seven counties in east-central Illinois, 1917-1933. Joseph Ackerman and L. J. Norton. Aug. 1940.
469. A study of horseradish diseases and their control. K. J. Kadow and H. W. Anderson. Sept. 1940.
470. Immunization against pox in domestic fowl. Robert Graham and C. A. Brandly. Oct. 1940.
471. Range of adaptation of certain varieties of vegetable-type soybeans. J. W. Lloyd. Dec. 1940.
472. The migration of iron and manganese in colloidal systems. Eric Winters. Dec. 1940.
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64. Stark County soils. Eric Winters, Jr., R. S. Smith, and L. H. Smith. June 1939.
65. Boone County soils. Herman Wascher, R. S. Smith, and L. H. Smith. June 1939.
66. Shelby County soils. Herman Wascher, G. D. Smith, and L. H. Smith. June 1939.
67. Dewitt County soils. G. D. Smith and L. H. Smith. June 1940.
68. Jasper County soils. R. S. Smith and L. H. Smith. June 1940.
69. Cumberland County soils. R. S. Smith and L. H. Smith. June 1940.

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BULLETINS

434. Root-knot nematode of tomatoes in relation to the Indiana canning crop. G. A. Ficht. Jan. 1939.
435. Farm buildings in relation to farm management in Indiana. Lynn Robertson. Mar. 1939.
436. Economic study of harvesting with the small combine in Indiana (machines with cutter bars of six feet or less). J. C. Bottum, W. R. Rothenberger, and I. D. Mayer. Apr. 1939.
437. The cost of using farm machinery in Indiana. E. L. Butz and O. G. Lloyd. May 1939.
438. A study of grade, quality, and price of canned tomatoes sold at retail in Indiana. F. C. Gaylord and K. I. Fawcett. May 1939.
439. Precooling tests of Indiana strawberries, cantaloupes, and peaches. T. E. Hienton and K. I. Fawcett. May 1939.
440. The hessian fly in Indiana. C. M. Packard and W. B. Cartwright. Aug. 1939.
441. An economic study of the broiler industry in western Indiana. E. C. Young. Aug. 1939.
442. Economic considerations in growing canning factory tomatoes in northwestern Indiana. M. G. Smith and Lynn Robertson. Oct. 1939.
443. The use of farm trucks in marketing farm products in central Indiana. T. K. Cowden. Aug. 1939.
444. Peony studies. E. R. Honeywell, F. C. Gaylord, and K. I. Fawcett. Apr. 1940.
445. Prices of beef cattle. Lynn Robertson and M. P. Mitchell. Jan. 1940.

446. Transportation of farm products in central Indiana by commercial truckers. C. M. Hardin and T. K. Cowden. May 1940.
447. Experiments with electric water heaters for dairy farms. J. M. Fore and T. E. Hienton. Dec. 1939.
448. Levels of protein in rations for young turkeys: I, Starting rations, first twelve weeks; II, growing rations after twelve weeks. R. E. Roberts. Apr. 1940.
449. Bacteriological studies on the cleaning of milking machines. E. H. Parfitt. May 1940.
450. Relation of character of farming units to land management in two townships in Indiana. J. R. Hays. Aug. 1940.
451. The biology of six species of cockroaches which inhabit buildings. G. E. Gould and H. O. Deay. Sept. 1940.
452. Importance of different farm management factors under varying price conditions in northwestern Indiana (type-of-farming area no. 1). Lynn Robertson. Aug. 1940.
453. Major land use problems in Martin County, Indiana, with suggestions for programs and policies. J. B. Kohlmeyer. Oct. 1940.
454. The economy of pastures in the limestone area of southern Indiana. F. V. Smith. Sept. 1940.
455. Prices and receipts of fruits and vegetables sold on the Terre Haute producers market. K. I. Fawcett and F. C. Gaylord. Dec. 1940.
456. An economic analysis of the production of canning factory tomatoes in Indiana. L. S. Robertson, M. G. Smith, F. V. Smith, and J. C. Bottum. Oct. 1940.

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379. 1938 Iowa corn yield test. M. S. Zuber and J. L. Robinson. Feb. 1938.
380. Crossbreeding hogs for pork production. J. L. Lush, P. S. Shearer, and C. C. Culbertson. June 1939.
381. The farmer looks at soil conservation in southern Iowa. A. C. Bunce. June 1939.
382. Life, service and cost of service of pneumatic tractor tires. E. G. McKibben and J. B. Davidson. Sept. 1939.

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- P1. Colt production in Iowa. A. B. Caine. Dec. 1939.
- P2. The 1939 Iowa corn yield test. J. L. Robinson and M. S. Zuber. Feb. 1940.
- P3. Fur-bearers and game mammals of Iowa. E. A. Hicks and G. O. Hendrickson. Feb. 1940.
- P4. Quality lamb production. C. W. McDonald. Mar. 1940.
- P5. Seasonal market variations, and their importance to Iowa farmers. Eugene Hamilton. Mar. 1940.
- P6. Effect of spacing and length of harvesting period on yields of asparagus. E. S. Haber. Mar. 1940.
- P7. Grape training and pruning in Iowa. S. W. Edgecombe and T. J. Maney. Mar. 1940.
- P8. Pasture improvement and management. H. B. Cheney. Mar. 1940.
- P9. Rubber-tiring farm machines. D. K. Struthers and A. H. Bennett. Apr. 1940.
- P10. Pruning fruit trees. S. W. Edgecombe. Apr. 1940.
- P11. Contour farming for soil and water conservation. C. H. Van Vlack and L. E. Clapp. Apr. 1940.
- P12. Gladiolus culture in Iowa. L. C. Grove. May 1940.
- P13. Electric motors for the farm (single phase). H. H. Beaty and W. A. Thomas. June 1940.
- P14. House plants. J. B. Wingert. July 1940.
- P15. Sweet corn hybrids. E. S. Haber. Aug. 1940.
- P16. Capons in Iowa. R. E. Phillips and A. D. Oderkirk. Sept. 1940.
- P17. Ponds for farm water supply. J. B. Davidson and C. H. Van Vlack. Oct. 1940.

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250. Post-war developments in the marketing of butter. W. H. Nicholls. Feb. 1939.
251. Curing and storage of alfalfa hay. E. R. Henson. Feb. 1939.
252. Yield tests and land valuation. W. G. Murray, A. J. Englehorn, and R. A. Griffin. Mar. 1939.

253. Growth and flowering of the gladiolus, influence of certain morphological and physiological characteristics of the corms. L. C. Grove. Mar. 1939.
254. Relation of root reserves to control of European bindweed *Convolvulus arvensis* L. A. L. Bakke, W. G. Gaessler, and W. E. Loomis. May 1939.
255. The physical and chemical characteristics of lards and other fats in relation to their culinary value: II, Use in plain cake. Belle Lowe and P. M. Nelson. May 1939.
256. Slow acid production by butter cultures. F. E. Nelson, L. A. Harriman, and B. W. Hammer. May 1939.
257. Balanced incomplete block and lattice square designs for testing yield differences among large numbers of soybean varieties. M. G. Weiss and G. M. Cox. Apr. 1939.
258. Cost and utilization of power and labor on Iowa farms. W. D. Goodsell. June 1939.
259. Experiments on the control of European bindweed. (*Convolvulus arvensis* L.) A. L. Bakke. June 1939.
260. Differences in Iowa farms and their significance in the planning of agricultural programs. W. W. Wilcox and N. V. Strand. June 1939.
261. Post-war developments in the marketing of cheese. W. H. Nicholls. June 1939.
262. Local hog marketing practices in Iowa. Geoffrey Shepherd and N. V. Strand. Aug. 1939.
263. Bacteriology of butter: VII, Effect of reworking butter on growth of bacteria. H. F. Long and B. W. Hammer. Sept. 1939.
264. Bacteriology of cheese: IV, Factors affecting the ripening of Swiss-type cheese made from pasteurized milk. F. J. Babel and B. W. Hammer. Nov. 1939.
265. Butterfat procurement by creameries in Butler County, Iowa. P. E. Quintus and Frank Robotka. Dec. 1939.
266. Corporate land, foreclosures, mortgage debt and land values in Iowa, 1939. W. G. Murray. Dec. 1939.
267. Bacteriology of butter: VIII, Relationship of *Achromobacter putrefaciens* to the putrid defect of butter. T. J. Claydon and B. W. Hammer. Dec. 1939.
268. Diacetyl and other alpha-dicarbonyl compounds with special reference to the flavor of butter. E. A. Prill, N. E. Fabricius, and B. W. Hammer. Dec. 1939.
269. Defects which reduce quality and yield of oak-hickory stands in southeastern Iowa. C. M. Genaux and J. G. Kuenzel. Dec. 1939.
270. Could hogs be sold by carcass weight and grade in the United States? Geoffrey Shepherd, F. J. Beard, and Arval Erikson. Jan. 1940.
271. The relation of wall construction to moisture accumulation in fill-type insulation. H. J. Barre. Apr. 1940.
272. An economic study of the baby beef enterprise in southern Iowa. J. A. Hopkins, W. D. Goodsell, and R. K. Buck. Apr. 1940.
273. An experiment in pre-harvest sampling of wheat fields. A. J. King and E. H. Jebe. Aug. 1940.
274. An inhibitor produced by *Diplodia zeae* (Schw.) Lév. G. C. Kent. Aug. 1940.
275. Dairy and hog farming in northeastern Iowa. R. K. Buck, J. A. Hopkins, and C. C. Malone. Sept. 1940.
276. Cooperation in grain marketing in Iowa. Frank Robotka and R. C. Bentley. Sept. 1940.
277. The great horned owl and its prey in north-central United States. P. L. Errington, Frances Hamerstrom, and F. N. Hamerstrom, Jr. Sept. 1940.
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280. Effect of Hormodin A, a growth substance, on the rooting of cuttings. M. A. Maxon, B. S. Pickett, and H. W. Richey. Oct. 1940.
281. The analysis of lattice and triple lattice experiments in corn varietal tests: I, Construction and numerical analysis. G. M. Cox and R. C. Eckhardt.—II, Mathematical theory. W. G. Cochran. Sept. 1940.
282. Performance of electric roasters. Faith Madden and L. J. Peet. Oct. 1940.
283. Bacteriology of cheese: V, Defects of blue (Roquefort-type) cheese. H. W. Bryant and B. W. Hammer. Oct. 1940.
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282. Soybean production in Kansas. J. W. Zahnley. Mar. 1939. Revision of Bul. 249.
283. Assessment and collection of farm real estate taxes in Kansas. Harold Howe and L. F. Miller. Apr. 1939.
284. Poultry diseases, their prevention and control. L. D. Bushnell and M. J. Twiehaus. May 1939. Revision of Bul. 247.
285. Woodlands of Kansas. E. R. Ware and L. F. Smith. July 1939.
286. Equipment for swine production. B. M. Anderson and V. R. Hillman. Aug. 1939. Revision of Bul. 243.
287. Feeding range lambs in Kansas. R. F. Cox. Nov. 1939.
288. Kansas corn tests, 1939. A. L. Clapp, R. W. Jugenheimer, H. D. Hollembeak, and L. N. Skold. Jan. 1940.
289. A comparison of hard red winter and hard red spring wheats, and examination of pertinent opinions and data. R. K. Larmour. Jan. 1940.
290. Growing an orchard in Kansas. R. J. Barnett. Jan. 1940. Revision of Bul. 254.
291. Deferred grazing of bluestem pastures. K. L. Anderson. Oct. 1940.

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47. A physiological study of the winter wheat plant at different stages of its development. E. C. Miller. July 1939.
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49. Transference of hessian fly resistance and other characteristics of Marquillo spring wheat to winter wheat. R. H. Painter, E. T. Jones, C. O. Johnston, and J. H. Parker. Oct. 1940.
50. Equine encephalomyelitis virus isolated from naturally infected *Triatoma sanguisuga* LeConte. C. H. Kitselman and A. W. Grundmann. Nov. 1940.
51. Calcium in the nutrition of the fattening calf. A. D. Weber, C. W. McCampbell, J. S. Hughes, and W. J. Peterson. Dec. 1940.

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389. The strawberry crown borer, *Tyloclerma fragariae* (Riley). P. O. Ritcher. Jan. 1939.
390. Organization and management of the Falls Cities cooperative milk producers' association. J. B. Roberts and H. B. Price. Jan. 1939.
391. Control of sod webworms in lawns. H. H. Jewett. Apr. 1939.
392. Four wireworms found in bluegrass sod. H. H. Jewett. May 1939.
393. Fruit pests and their control. P. O. Ritcher, W. D. Valleau, and W. W. Magill. June 1939.
394. Tree fruit varieties for Kentucky. C. S. Waltman. June 1939.
395. Natural increase and migration of Kentucky population, 1920 to 1935. Merton Oyler. Aug. 1939.
396. Grape and small-fruit varieties for Kentucky. C. S. Waltman. Sept. 1939.
397. Soil management experiments. George Roberts, J. F. Freeman, and E. J. Kinney. Nov. 1939.
398. Wireworm injury to tobacco plants. H. H. Jewett. Feb. 1940.
399. Control of blackfire of tobacco in western Kentucky. E. M. Johnson and W. D. Valleau. Feb. 1940.
400. The significance of biological types of *Salmonella typhi-murium* (*Salmonella aertrycke*). P. R. Edwards and D. W. Bruner. Mar. 1940.
401. Kentucky white grubs. P. O. Ritcher. Apr. 1940.
402. Reproductive efficiency in dairy cattle. F. E. Hull, W. W. Dimock, Fordyce Ely, and H. B. Morrison. May 1940.
403. Thirty years of farm prices and production in Kentucky, a compilation of available statistics. A. J. Brown and D. G. Card. May 1940.
404. Biochemical and serological studies of microorganisms of the *Salmonella cholerae-suis* group. D. W. Bruner and P. R. Edwards. June 1940.
405. Variations in farm income and family living in Robertson County. J. H. Bondurant and M. M. Tharp. June 1940.
406. Cost of curing white Burley tobacco with artificial heat. G. B. Byers. July 1940.
407. The effect of temperature and relative humidity during and after curing, upon the quality of white Burley tobacco. R. N. Jeffrey. July 1940.
408. Distillery slop for hogs. E. J. Wilford. Aug. 1940.
409. Seasonal movements in prices and sales of Burley tobacco. D. G. Card and C. M. Clark. Sept. 1940.
410. The effect of nitrogen and phosphorus on the growth of apple and peach trees in sand culture. C. S. Waltman. Dec. 1940.

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304. Results of pasture fertilization at Lafayette, Louisiana. R. H. Lush and J. L. Fletcher. Mar. 1939.
305. Improving beef cattle pastures on rice lands. C. I. Bray. Mar. 1939.
306. Effect of nitrogen, phosphorus, and potassium in fertilizers on the earliness of cotton. H. B. Brown and H. W. Pope. Mar. 1939.
307. Chemical characteristics of the soils of the rice area of Louisiana. J. F. Reed and M. B. Sturgis. Mar. 1939.
308. Seed selection and roguing in the practical control of mosaic disease of sugarcane in Louisiana. M. L. Shaffer. May 1939.
309. Factors in the organization and operation of farms in an upland cotton area of Louisiana. R. J. Saville and S. B. Thonon. Oct. 1939.
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310. Marketing Louisiana sweet potatoes. R. A. Ballinger. Oct. 1939.
311. A comparative study of quality in oranges from Louisiana and other States. W. D. Kimbrough and G. N. Page. Oct. 1939.
312. Citrus orchard heating in Louisiana. F. D. Cochran. Jan. 1940.
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314. A farm management and cost study on 500 family-sized farms in the Louisiana sugar cane area, 1938. W. W. McPherson and J. N. Efferson. Feb. 1940.
315. Financial results in the operation of large sugar cane farms in Louisiana, 1937 and 1938. R. A. Ballinger. Feb. 1940.
316. Financial results of the operation of sugar mills in Louisiana, 1937 and 1938. R. A. Ballinger. Feb. 1940.

317. Some results of a farm management survey in Rapides, Union, Claiborne, and De Soto Parishes, 1938. J. N. Efferson. Mar. 1940.
318. Growing winter legumes in Louisiana. F. L. Davis, C. G. Hobgood, and C. A. Brewer, Jr. June 1940.
319. The situation and prospects of the population in the Black River settlement, Louisiana. T. L. Smith and S. E. Grigsby. June 1940.
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321. Factors affecting costs of milk production in southeastern Louisiana. J. N. Efferson and Frank Merrick. June 1940.
322. Economic utilization of rural land resources in Beauregard Parish, Louisiana. B. M. Gile. June 1940.
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394. Performance analysis of selected types of kerosene stoves. M. M. Monroe. Feb. 1939.
395. An economic study of milk distribution in Maine markets. G. F. Dow. Mar. 1939.
396. Bacterial wilt and soft rot of the potato in Maine. Reiner Bonde. Apr. 1939.
397. Report of progress for year ending June 30, 1939. Fred Griffee. June 1939.
398. The organization and management of 95 dairy and cash crop farms in Androscoggin and Oxford Counties, Maine. A. E. Watson and Emil Rauchenstein. Feb. 1940.
399. Receipts, utilization, and prices of milk and cream in Maine milk control areas. G. F. Dow. Mar. 1940.
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401. The food habits and physical condition of children in selected communities in Maine. M. M. Clayton. July 1940.
402. Boron deficiency symptoms in some plants of the cabbage family. F. B. Chandler. Aug. 1940.
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424. An economic study of land utilization in the tobacco area of Southern Maryland. J. W. Coddington and D. E. Derr. Jan. 1939.
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427. The production and marketing of honey in Maryland. R. F. Burdette and S. H. DeVault. July 1939.
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430. Economic analysis of the Baltimore egg market. L. E. Cron, R. F. Burdette, and S. H. DeVault. Oct. 1939.
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355. Annual report for the fiscal year ending November 30, 1938. F. J. Sievers. Feb. 1939.
 356. Field corn in Massachusetts. W. G. Colby and R. W. Donaldson. Feb. 1939.
 357. The effect of feeding a Vitamin A supplement to dairy cattle. J. G. Archibald and C. H. Parsons. Mar. 1939.
 358. Blueberry culture in Massachusetts. J. S. Bailey, H. J. Franklin, and J. L. Kelley. Feb. 1939.
 359. Factors affecting fertility in Rhode Island Reds. F. A. Hays and Ruby Sanborn. May 1939.
 360. Farm storages for New England apples. C. I. Gunness, W. R. Cole, and O. C. Roberts. Mar. 1939.
 361. Control of tomato leaf mold in greenhouses. E. F. Guba. Apr. 1939.
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 366. Towards a perfect milk market. J. E. Donley. Nov. 1939.
 367. Meteorological records, a fifty-year summary, 1889-1938. C. I. Gunness. Dec. 1939.
 368. *Cephalosporium* elm wilt in Massachusetts. M. A. McKenzie and E. M. Johnson. Dec. 1939.
 369. Annual report for the fiscal year ending November 30, 1939. F. J. Sievers. Feb. 1940.
 370. Transmissible fowl leukosis, a review of the literature. Carl Olson, Jr. Apr. 1940.
 371. Cranberry growing in Massachusetts. H. J. Franklin. June 1940.
 372. The McIntosh drop. Lawrence Southwick. May 1940.
 373. Foods and public health. J. E. Fuller. May 1940.
 374. Minerals in nutrition: Introduction. J. E. Fuller.—I, Total nutrients and minerals in human and cattle foods. W. S. Ritchie and E. B. Holland.—II, The absorption by food plants of certain chemical elements important in human physiology and nutrition. W. S. Eisenmenger and K. J. Kucinski.—III, Possible relationship of vitamin C and arthritis. W. B. Esselen, Jr., and C. R. Fellers.—IV, The effect of kelp and mineral supplements on atherosclerosis in rabbits induced by feeding cholesterol. H. S. Mitchell, M. F. Goldfaden, and G. J. Hadro.—V, Effect of added iodine on the enzymes of milk and on other enzymes. Myer Glickstein, W. S. Mueller, and J. H. Frandsen.—VI, Added iodine in milk and fecal bacteria. J. E. Fuller and W. B. Esselen, Jr.—VII, Iodine and bacterial counts in milk. J. E. Fuller, G. S. Congdon, and Myer Glickstein. Aug. 1940.
 375. Biological control of mealybugs in greenhouses. W. D. Whitcomb. July 1940.
 376. The culture and forcing of easter lilies. H. E. White. Aug. 1940.
 377. Inheritance of broodiness in Rhode Island Reds. F. A. Hays. Oct. 1940.

MICHIGAN AGRICULTURAL EXPERIMENT STATION, EAST LANSING

SPECIAL BULLETINS

397. Profitable dairy management. K. T. Wright and A. C. Baltzer. Apr. 1939.
 298. Interests of rural people as portrayed in weekly newspapers. C. R. Hoffer. Feb. 1939.
 299. Soil management for potatoes. G. M. Grantham, C. E. Millar, and A. H. Mick. June 1939.
 300. The Kalamazoo milk market. Orion Ulrey. Dec. 1939.
 301. Michigan tax trends, as related to agriculture. D. C. Cline. Feb. 1940.
 302. The Lansing region and its tributary town-country communities, a study of 88 townships and 52 communities tributary to Lansing. J. F. Thaden. Mar. 1940.
 303. Self-feeding vs. hand-feeding fattening lambs and rations for self-feeding lambs. G. A. Brown and L. H. Blakeslee. June 1940.
 304. Some important Michigan weeds. H. T. Darlington, E. A. Bessey, and C. R. Megee. Dec. 1940.
 305. Sugar beet costs and returns. K. T. Wright. Dec. 1940.

TECHNICAL BULLETINS

162. The relative importance of various factors influencing profits in strawberry production. N. D. Peacock. Feb. 1939.
163. Causes and effects of size differences in apple trees in the nursery. F. C. Bradford and Lloyd Joley. May 1939.
164. Effect of heat on milk with especial reference to the cooked flavor. I. A. Gould, Jr., and H. H. Sommer. May 1939.
165. Formulas for finding estimates for two and three missing plots in randomized block layouts. W. D. Baten. Apr. 1939.
166. Studies of the eastern ruffed grouse in Michigan (*Bonasa umbellus umbellus*). L. W. Fisher. June 1939.
167. Use of fertilizers and lime on native pastures in Michigan. James Tyson. Nov. 1939.
168. A study of the protein-nucleates of the species of the genus *Brucella*: I, Chemical constitution of the protein-nucleates; II, biological properties of the protein-nucleates. W. H. Stahl, R. B. Pennell, and I. F. Huddleson. Oct. 1939.
169. "Thin wood" pruning considered from the standpoint of photosynthate production. B. S. Pickett. Feb. 1940.
170. The relation of nutrition to the development of necrotic enteritis in swine. G. K. Davis, V. A. Freeman, and L. L. Madsen. Feb. 1940.
171. A study of three methods of research in home management. I. H. Gross, Ann Aikin, Therese Tordt, E. A. Zwemer, and W. D. Baten. Feb. 1940.
172. An electrical resistance method for the continuous measurement of soil moisture under field conditions. G. J. Bouyoucos and A. H. Mick. Apr. 1940.
173. A study of some factors affecting the efficiency of *Encarsia formosa* Gahan, an aphelinid parasite of the greenhouse white fly, *Trialeurodes vaporariorum* Westw.). H. E. Milliron. June 1940.
174. The development of mold on cold storage eggs and methods of control. W. L. Mallmann and C. E. Michael. Nov. 1940.

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Quarterly bulletins, vol. 21, no. 3—vol. 23, no. 2. February 1939—November 1940. Each number contains various articles relating to agricultural practice, based on investigational work of the station.

MINNESOTA AGRICULTURAL EXPERIMENT STATION, UNIVERSITY FARM, ST. PAUL

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340. Insects infesting stored grain and seeds. H. H. Shepard. Feb. 1939.
341. Insects infesting stored foods. H. H. Shepard. June 1939.
342. Death and crippling in livestock marketing. A. A. Dowell and R. J. Eggert. May 1939.
343. Timber farming in the Cloquet district. J. H. Allison and R. N. Cunningham. July 1939.
344. A study of the consumption of fats and oils in Minneapolis, 1938. W. C. Waite and R. W. Cox. Aug. 1939.
345. Minnesota cold storage locker plants. A. A. Dowell, S. T. Warrington, R. J. Eggert, and L. J. Fenske. Jan. 1940.
346. Trends in the Minnesota dairy industry. E. F. Koller and O. B. Jesness. Jan. 1940.
347. Agricultural production and types of farming in Minnesota. S. A. Engene and G. A. Pond. May 1940.
347. Supplement: Statistical supplement, agricultural production and types of farming in Minnesota. S. A. Engene and G. A. Pond. May 1940.
348. Brucellosis or Bang's disease of farm animals. C. P. Fitch and W. L. Boyd. June 1940.
349. Sugar beet culture in Minnesota. J. O. Culbertson. June 1940.
350. Planning the physical layout of farms. O. W. Howe. June 1940.

TECHNICAL BULLETINS

134. A study of the chemistry of incipient oxidation defects in butter. C. R. Barnicoat and L. S. Palmer. Apr. 1939.
135. Studies on some factors relating to hardness in the strawberry: I, The development of cold resistance in strawberry varieties. Ernest Angelo.—II, Winter soil temperatures as a factor in the environment of the strawberry and some other herbaceous plants. V. E. Iverson.—III, The respiratory rate of dormant strawberry plants. W. G. Brierley and R. H. Landon. Feb. 1939.

136. Nutritive value and chemical composition of certain fresh-water plants of Minnesota: I. Nutritive value and general chemical composition of species of *Elodea*, *Myriophyllum*, *Vallisneria*, and other aquatic plants. J. W. Nelson and L. S. Palmer.—II. The nitrogen distribution of *Elodea canadensis*. A. N. Wick and W. M. Sandstrom.—III. The nature of the carbohydrates of species of *Elodea*, *Myriophyllum*, *Ceratophyllum*, *Ruppia*, and *Ranunculus*. H. V. Lindstrom and W. M. Sandstrom. Mar. 1939.
137. Studies of inheritance in crosses between Bond, *Avena byzantina*, and varieties of *A. sativa*. H. K. Hayes, M. B. Moore, and E. C. Stakman. June 1939.
138. Farm organization for beef cattle production in southwestern Minnesota. G. A. Sallee, G. A. Pond, and C. W. Crickman. Aug. 1939.
139. The blood picture in hemorrhagic anemia. J. M. Leichsenring, Alice Biester, [and others]. June 1939.
140. The Syrphidae of Minnesota. H. S. Telford. Dec. 1939.
141. High temperature tolerance of forest trees. R. W. Lorenz. Oct. 1939.
142. The spruce budworm in Minnesota. S. A. Graham and L. W. Orr. Apr. 1940.
143. Biochemical studies of some varieties of apples, plums, and grapes grown in Minnesota. E. O. Barnes. June 1940.
144. A laboratory study of the drainage requirements of sweet clover. P. W. Manson. June 1940.

MISCELLANEOUS REPORT

1. A study of the values sought and the practices followed by consumers in the purchase of "silk" street dresses and silk yard goods. E. L. Phelps, F. E. Petzel, A. S. Loring, and E. A. Nielson. Sept. 1939.

MISSISSIPPI AGRICULTURAL EXPERIMENT STATION, STATE COLLEGE

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326. A compilation of information on kudzu. I. E. Miles and E. E. Gross. Jan. 1939.
327. Growing sweetpotatoes in the Yazoo-Mississippi Delta. E. A. Currey. Apr. 1939.
328. Fall versus spring calving. R. H. Means. May 1939.
329. Cottonseed meal and cake for finishing mature steers on pasture. R. H. Means. May 1939.
330. A compilation of experimental information on feeding laying hens. H. O. West. June 1939.
331. Soybeans in the Yazoo-Mississippi Delta. H. A. York. June 1939.
332. Prices and index numbers of prices of farm products, Mississippi, 1910-1938. Marvin Guin and D. W. Parvin. June 1939.
333. Fertilizer response and requirements for profitable crop production in the Yazoo-Mississippi Delta. Roy Kuykendall. July 1939.
334. Small grain production in the Yazoo-Mississippi Delta. Roy Kuykendall. Sept. 1939.
335. Broiler production. Compiled by H. O. West. Sept. 1939.
336. The value of legumes for soil improvement. Russell Coleman. Aug. 1939.
337. Farm mechanics. O. L. Snowden and H. O. West. Nov. 1939.
338. Neutral versus acid fertilizer. J. L. Anthony, John Pitner, and Clarence Dorman. Feb. 1940.
339. Corn varieties in Mississippi. C. R. Owen. Mar. 1940.
340. Illustrated guide to landscaping Mississippi homes. R. O. Monosmith and F. S. Batson. Dec. 1939.
341. Peanut production. Compiled by H. O. West. Apr. 1940.
342. Profit from \$100 spent for cotton fertilizer: A summary of experimental data on the effect of analyses and rates of fertilizer on profits obtained in hill sections of Mississippi. W. B. Andrews. Apr. 1940.
343. The place of dairying in Mississippi agriculture. J. S. Moore and W. C. Cowsert. May 1940.
344. The judging of livestock, dairy, poultry and crops. Compiled by H. O. West. June 1940.
345. Legumes for crop production in the Yazoo-Mississippi Delta. Roy Kuykendall. July 1940.
346. What the farm woman can do to improve the economic status of her family. Dorothy Dickins. July 1940.
347. The influence of breeding on the performance of beef calves produced in Mississippi. A. E. Cullison. Aug. 1940.
348. Oats in Mississippi. Roy Kuykendall, John Pitner, J. F. O'Kelly, J. L. Anthony, and C. D. Hoover. Sept. 1940.
349. Sweetpotato plant production in Mississippi. W. S. Anderson. Oct. 1940.

350. Home orchards in Mississippi. T. E. Ashley. Nov. 1940.
351. Pork production. Compiled by H. O. West. Nov. 1940.
352. Factors for success on starch sweetpotato and general farms in Jones County, Mississippi, 1939. Marvin Guin, D. W. Parvin, and A. J. Huff. Nov. 1940.
353. Methods of field curing hay. T. N. Jones, O. A. Leonard, and I. E. Hamblin. Dec. 1940.

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25. The effects of various feeds on the milk fat constants and on the flavor and texture of butter. F. H. Herzer, J. S. Moore, and W. C. Cowser. June 1939.
26. Studies in nutritional anemia. Olive Sheets and M. V. Ward. June 1940.

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403. Registration, labeling and inspection of commercial fertilizers, 1938. M. F. Miller, L. D. Haigh, and E. W. Cowan. Mar. 1939.
404. Rapid soil tests for estimating the fertility needs of Missouri soils. L. D. Bayer and F. H. Bruner. Apr. 1939.
405. Evaluating annual changes in soil productivity. A. W. Klemme and O. T. Coleman. June 1939.
406. Grasshopper outbreaks in Missouri. G. D. Jones. June 1939.
407. Artificial insemination of dairy cows. H. A. Herman and A. C. Ragsdale. June 1939.
408. The effect of temperature upon score value and physical structure of butter. W. H. E. Reid and W. S. Arbuckle. July 1939.
409. Landlord-tenant relationships in renting Missouri farms. J. F. Timmons. Aug. 1939.
410. Supplemental irrigation in Missouri. R. P. Beasley. Aug. 1939.
411. Coccidiosis in chickens and other birds. A. J. Durant and H. C. McDougale. Oct. 1939. Revision of 372.
412. Pregnancy disease of sheep. Cecil Elder and A. W. Uren. Jan. 1940. Revision of 345.
413. Research in agriculture: Work of the agricultural experiment station during the year ending June 30, 1937. F. B. Mumford and S. B. Shirky. Jan. 1940.
414. The use of vegetable protein concentrates for raising turkeys. E. M. Funk and H. L. Kempster. Feb. 1940.
415. Amounts and cost of credit extended by cooperative exchanges. R. E. Mercer and H. M. Haag. Feb. 1940.
416. New practices to regulate the fruit crop. A. E. Murneek. Mar. 1940.
417. Registration, labeling and inspection of commercial fertilizers, 1939. L. D. Haigh, E. W. Cowan, and L. L. Wiseman. Apr. 1940.
418. The walnut caterpillar. Leonard Haseman. July 1940.
419. The land grant college movement. F. B. Mumford. July 1940.
420. Modern trends in the retail ice cream store. R. J. Cooley and W. H. E. Reid. Oct. 1940.
421. The classification of land: Proceedings of the first National conference on land classification. Dec. 1940.

RESEARCH BULLETINS

295. Growth and development, with special reference to domestic animals: I, the influence of fasting and refeeding on milk production, heat production, and respiratory quotient. L. E. Washburn, Samuel Brody, and A. C. Ragsdale. Jan. 1939.
296. Studies on the blood precursors of milk protein. E. P. Reineke, V. E. Peterson, O. B. Houchin, and C. W. Turner. Feb. 1939.
297. Virus protein of mosaic disease of tobacco. C. G. Vinson, D. K. McReynolds, and N. S. Gingrich. Feb. 1939.
298. Mutants and linkage studies in *Triticum monococcum* and *T. aegilopoides*. Luther Smith. Apr. 1939.
299. Some effects of temperature on the growth and chemical composition of certain pasture grasses. E. M. Brown. Apr. 1939.
300. Consumer demand in Missouri for selected articles of clothing. J. V. Coles. May 1939.
301. Consumer demand in Missouri for selected articles of household textiles. J. V. Coles. May 1939.
302. Alpha hydrate and beta anhydride lactose crystals in sandy ice cream. C. W. Decker, W. S. Arbuckle, and W. H. E. Reid. July 1939.

303. The effect of composition and serving temperature upon consumer acceptance and dispensing qualities of ice cream. W. H. E. Reid, R. J. Drew, and W. S. Arbuckle, July 1939.
304. Studies on the origin and transmission of fowl paralysis (neurolymphomatosis) by blood inoculation. A. J. Durant and H. C. McDougale. Aug. 1939.
305. Rural social areas in Missouri as determined by statistical analysis of county data. C. E. Lively and C. L. Gregory. Aug. 1939.
306. The rural population resources of Missouri. C. E. Lively and R. B. Almack. Nov. 1939.
307. Some rural social agencies in Missouri, their nature and extent. C. E. Lively and R. B. Almack. Nov. 1939.
308. Relationship of productivity of farm units and their ability to pay rent. B. R. Rawlings, Jr., and O. R. Johnson. Nov. 1939.
309. The effect of root temperature upon the absorption of water by the cucumber. R. A. Schroeder. Dec. 1939.
310. The mammogenic hormones of the anterior pituitary: I, The duct growth factor. A. A. Lewis and C. W. Turner. Dec. 1939.
311. Studies on *Fusarium* wilt of the tomato: I, Immunity in *Lycopersicon pimpinellifolium* Mill. and its inheritance in hybrids. G. W. Bohn and C. M. Tucker. Jan. 1940.
312. Missouri farm prices since 1910. H. M. Haag. Mar. 1940.
313. Results of some young apple tree pruning experiments. T. J. Talbert. Mar. 1940.
314. Comparative accuracy and efficiency in determination of carbohydrates in plant material. P. H. Heinze and A. E. Murneek. Mar. 1940.
315. Growth and development, with special reference to domestic animals: LI. Seasonal metabolic and endocrine rhythms in the domestic fowl. C. F. Winchester. Mar. 1940.
316. Substitute spray materials, II. C. G. Vinson and S. A. McCrory. May 1940.
317. The yield and composition of the milk of dairy cows and goats as influenced by thyroxine. N. P. Ralston, W. C. Cowser, A. C. Ragsdale, H. A. Herman, and C. W. Turner. June 1940.
318. The economic status of 436 families of Missouri clerical workers and wage earners. J. V. Coles and Lucile Hieser. June 1940.
319. The effect of standardizing the acidity in the manufacturing of cottage cheese and cultured buttermilk. L. E. Mull, W. H. E. Reid, and W. S. Arbuckle. July 1940.
320. A microscopic and statistical analysis of texture and structure of ice cream as affected by composition, physical properties, and processing methods, W. S. Arbuckle. Sept. 1940.
321. Inadequacy of the concentrates commonly used in swine feeding. A. G. Hogan and S. R. Johnson. Sept. 1940.
322. The relation of acidity, solids per gallon, and different sources of serum solids to the physical and chemical properties of high serum solids ice cream. W. H. E. Reid, C. W. Decker, and W. S. Arbuckle. Dec. 1940.
323. Replacing cane sugar with variable increments of dextrose and cerelose sugar in the ice cream mix, and its effect upon the physical and chemical properties of ice cream at different serving temperatures. W. H. E. Reid, R. J. Cooley, and W. S. Arbuckle. Dec. 1940.
324. Land and fiscal problems in Reynolds County, Missouri. R. J. Silkett. Dec. 1940.

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366. Montana insect pests for 1937 and 1938, the twenty-seventh report of the State entomologist of Montana. H. B. Mills. Jan. 1939.
367. Farm adjustments in Montana: Study of area VII, its past, present and future. N. W. Johnson. Mar. 1939.
368. Montana farm foreclosures, number, characteristics, and causes of farm mortgage foreclosures over a seventy-year period, with some suggestions for reducing them in the future. R. R. Renne. Feb. 1939.
369. Phosphate investigations in Montana, 1938. W. P. Willis, Jr., and F. M. Harrington. Feb. 1939.
370. Studies on some of the factors involved in the use of sodium arsenite against the Mormon cricket (*Anabrus simplex* Hald.). E. B. Hastings and J. H. Pepper. Mar. 1939.
371. Farm population mobility in selected Montana communities. C. F. Kraenzel. Apr. 1939.

372. Farm mortgage loan experience in central Montana, a study of the important factors associated with good or bad mortgage loan experience. P. S. Eckert and O. H. Maughan. June 1939.
373. The vitamin content of green string beans when cooked or canned and stored. H. L. Mayfield and J. E. Richardson. June 1939.
374. Soils of Musselshell County: Soil reconnaissance of Montana, preliminary report. L. F. Gieseker. Aug. 1939.
375. Important grasses and other common plants on Montana ranges, description, distribution and relative value. L. P. Reitz and H. E. Morris. Nov. 1939.
376. Commercial fertilizer report for 1939. J. T. Sparling and Edmund Burke. Dec. 1939.
377. Farm adjustments in Montana: Study of Area IV, its past, present, and future. Marion Clawson, M. H. Saunderson, and N. W. Johnson. Jan. 1940.
378. A report of phosphate investigations in Montana for 1939. W. P. Willis, Jr., and F. M. Harrington. Feb. 1940.
379. The effect of winter storage on the vitamin content of cabbage and onions. H. L. Mayfield and J. E. Richardson. Feb. 1940.
380. Range improvement through conservation of flood waters, a report of progress. O. W. Monson and J. R. Quesenberry. July 1940.
381. The quality and vitamin content of green peas when cooked or home-canned. J. E. Richardson and H. L. Mayfield. Mar. 1940.
382. Uncollected property taxes in Montana, an analysis of the amount, growth, causes, and means of reducing Montana property tax delinquency with special emphasis on rural property. R. R. Renne and O. H. Brownlee. Aug. 1940.
383. Montana farm real estate mortgage indebtedness: Amount, distribution, characteristics and trend of Montana farm mortgage debt. R. R. Renne. Oct. 1940.
384. Montana insect pests 1939 and 1940: Twenty-eighth report of the State entomologist. H. B. Mills. Jan. 1941.
385. Land ownership and tenure, Huntley irrigation project, an analysis of their evolutions and implications. P. L. Slagsvold. Jan. 1941.
386. Control of bacterial ring rot of potatoes with special reference to the ultraviolet-light method for selecting disease-free seed stock. V. E. Iverson and H. C. Kelly. Dec. 1940.

NEBRASKA AGRICULTURAL EXPERIMENT STATION, LINCOLN

BULLETINS

321. Nebraska tractor tests, 1920-1938. Supplement: Summary of results of the Nebraska tractor tests . . . includes only tractors on the market January 1, 1939. Jan. 1939.
322. Soybeans in Nebraska. T. A. Kiesselbach and W. E. Lyness. Oct. 1939.
323. Feeding sorghum grain to growing and fattening pigs. M. L. Baker and C. F. Reinmiller. Oct. 1939.
324. Cost of tractor power on Nebraska farms. Frank Miller, W. L. Ruden, and C. W. Smith. Nov. 1939.
325. Nebraska tractor tests, 1920-1939. Supplement: Summary of results of the Nebraska tractor tests . . . includes only tractors on the market January 1, 1940. Jan. 1940.
326. Varieties of winter wheat in Nebraska. K. S. Quisenberry, O. J. Webster, and T. A. Kiesselbach. May 1940.
327. The potato flea beetle and the potato psyllid in Nebraska. M. H. Swenk and H. D. Tate. May 1940.
328. Varieties of oats, barley, and spring wheat in Nebraska. T. A. Kiesselbach, O. J. Webster, and K. S. Quisenberry. June 1940.
329. Sorghum production in Nebraska. R. L. Cushing, T. A. Kiesselbach, and O. J. Webster. June 1940.

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108. The utilization of food elements by growing chicks: VI, The influence of the protein level of the ration on the growth of chicks. C. W. Ackerson, M. J. Blish, and F. E. Mussehl. Feb. 1939.
109. The utilization of food elements by growing chicks: VII, A comparison of corn and kalo in a ration for growing chicks. C. W. Ackerson, M. J. Blish, and F. E. Mussehl. Mar. 1939.
110. The effects of stinking smut (bunt) and seed treatment upon the yield of winter wheat. T. A. Kiesselbach and W. E. Lyness. Apr. 1939.
111. Further studies of selected types of domestic gas stoves. A. E. Baragar. Apr. 1939.

112. Effect of soil type, slope, and surface conditions on intake of water. F. L. Duley and L. L. Kelly. May 1939.
113. Effect of organic matter decomposition on the solubility and fixation of phosphorus in alkaline soils. H. F. Rhoades. June 1939.
114. Personality development in farm, small-town, and city children. L. H. Stott. Aug. 1939.
115. Comparative costs of home-produced and commercially produced bread and rolls. E. B. Snyder. Oct. 1939.
116. The utilization of food elements by growing chicks: VIII, A comparison of alfalfa meal and artificially dried Sudan grass meal in rations for growing chicks. C. W. Ackerson, M. J. Blish, and F. E. Mussehl. Dec. 1939.
117. Vegetative composition and grazing capacity of a typical area of Nebraska sandhill range land. A. L. Frolik and W. O. Shepherd. Mar. 1940.
118. An inquiry into the influence of environment on the incidence of poultry diseases. Leunis Van Es and J. F. Olney. Mar. 1940.
119. The influence of whole wheat, bran and shorts on body weight and feather growth in chicks. F. E. Mussehl, C. W. Ackerson, and M. J. Blish. May 1940.
120. The utilization of food elements by growing chicks: IX, The nitrogen of urea. C. W. Ackerson, W. E. Ham, and F. E. Mussehl. Aug. 1940.

NEVADA AGRICULTURAL EXPERIMENT STATION, RENO

BULLETINS

150. Forage production, its use and approximate costs in northeastern Nevada. C. E. Fleming and C. A. Brennen. Nov. 1939.
151. Range sheep production in northeastern Nevada: Production and earning power, 1933-1938, inclusive; long-time situation, 1910-1938. C. E. Fleming, C. A. Brennen, G. H. Smith, Jr., and M. R. Bruce. Jan. 1940.
152. Spread of white-top seed in the droppings of grazing cattle. R. S. Rosenfels. Mar. 1930.
153. Purebred and crossbred pigs, comparison of rate of growth and economy of gains. F. B. Headley. June 1940.
154. Possibilities and limitations in the use of irrigated land for forage production in northeastern Nevada: Improvements in cultural practices, seeding methods, and livestock husbandry, coupled with timely and well-balanced use of ranch and range forage, favor ranch stability. C. E. Fleming and C. A. Brennen. Aug. 1940.

NEW HAMPSHIRE AGRICULTURAL EXPERIMENT STATION, DURHAM

BULLETINS

312. Protein requirements of chickens at various stages of growth and development. A. E. Tepper, R. C. Durgin, and T. B. Charles. May 1939.
313. Agricultural research in New Hampshire: Annual report of the director of New Hampshire agricultural experiment station for the year 1938. J. C. Kendall. June 1939.
314. The agricultural conservation program in New Hampshire. H. C. Woodworth, V. H. Smith, and Emil Rauchenstein. June 1939.
315. Inspection of commercial feeding stuffs, 1939. T. O. Smith and H. A. Davis. July 1939.
316. Results of seed tests for 1939. B. G. Sanborn. July 1939.
317. Inspection of commercial fertilizers for 1939. T. O. Smith and H. A. Davis. Nov. 1939.
318. The marketing of farm woodland products in Carroll County, New Hampshire. Alan MacLeod and John Chandler. Dec. 1939.
319. Agricultural research in New Hampshire: Annual report of the director of New Hampshire agricultural experiment station for the year 1939. M. G. Eastman. June 1940.
320. Pasture top-dressing in New Hampshire. F. S. Prince, G. P. Percival, P. T. Blood, and P. N. Scripture. Apr. 1940.
321. Markets and prices for New Hampshire berries. L. A. Dougherty. June 1940.
322. Farm organization and management in the Colebrook area. H. C. Woodworth and Arno Hangas. June 1940.
323. Studies in economics of apple orcharding: III, A study of orchard problems by the budget method of analysis. H. C. Woodworth and G. F. Potter. June 1940.

324. Experiment with potatoes. F. S. Prince, P. T. Blood, W. H. Coates, and T. G. Phillips. June 1940.
325. Transportation of New Hampshire milk: II, Reorganization of truck routes. Alan MacLeod. June 1940.
326. Studies of pasture management. M. F. Abell. June 1940.
327. Inspection of commercial feeding stuffs, 1940. T. O. Smith and H. A. Davis. July 1940.
328. Results of seed tests for 1940. B. G. Sanborn. Aug. 1940.
329. Inspection of commercial fertilizers for 1940. T. O. Smith and H. A. Davis. Nov. 1940.

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72. Methods for the diagnosis and control of bovine mastitis. L. W. Slanetz, and J. Naghski. Feb. 1939.
73. Some effects of potassium and nitrogen on the composition of the tomato plant. T. G. Phillips, T. O. Smith, and J. R. Hepler. Apr. 1939.
74. Studies of contact insecticides: XIV. Penetration of certain liquids through the pronotum of the American roach. W. C. O'Kane, L. C. Glover, R. L. Blickle, and B. M. Parker. July 1940.

NEW JERSEY AGRICULTURAL EXPERIMENT STATION, NEW BRUNSWICK

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659. Studies on Raritan River pollution, II. Willem Rudolfs. Apr. 1939.
660. The economic situation facing New Jersey vegetable growers. J. W. Carncross and A. G. Waller. Mar. 1939.
661. The value of fortified cod liver oil in the production of market hogs. W. C. Skelley. Mar. 1939.
662. Analyses of commercial fertilizers and ground bone; analyses of agricultural lime, 1938. C. S. Cathcart. Feb. 1939.
663. Milk distribution costs of producer-distributors and subdealers in New Jersey. E. H. Rinear. Mar. 1939.
664. Analyses of commercial feeding stuffs and registrations for 1939. C. S. Cathcart. Aug. 1939.
665. Land utilization in New Jersey: A land development scheme in the New Jersey pine area. A. T. M. Lee. July 1939.
666. Rhododendrons from cuttings. G. G. Nearing and C. H. Connors. Oct. 1939.
667. Inbreeding and outbreeding Holstein-Friesian cattle in an attempt to establish genetic factors for high milk production and high fat test. J. W. Bartlett, R. P. Reece, and J. P. Mixner. Aug. 1939.
668. The management of hens in laying cages. W. C. Thompson. Sept. 1939.
669. A study of hydrolytic enzymes in activated sludge. R. S. Ingols. Sept. 1939.
670. Analyses of materials sold as insecticides and fungicides during 1939. C. S. Cathcart and R. L. Willis. Dec. 1939.
671. The measurement of the yellow color of milk. O. F. Garrett, H. H. Tucker, and F. J. Nuissl. Nov. 1939.
672. Summary of results of seed and legume inoculant inspection for 1939. J. G. Fiske. Nov. 1939.
673. A comparison of treatments on permanent pastures. H. B. Sprague, R. E. Blaser, and J. H. Boyce. Mar. 1940.
674. Analyses of commercial fertilizers, manures, and agricultural lime, 1939. C. S. Cathcart. Feb. 1939, i. e. 1940.
675. Maintaining color and flavor in Guernsey milk. J. W. Bartlett, O. F. Garrett, R. P. Reece, and R. P. Hartman. Feb. 1940.
676. A survey of variability in white clover (*Trifolium repens* L.) and its relation to pasture improvement. G. A. Ahlgren and H. B. Sprague. Apr. 1940.
677. Comparative values of green manures and nitrate of soda as measured by the growth of small grains. A. W. Blair and A. L. Prince. April 1940.
678. The warblers of New Jersey: Part II. The transient warblers. L. A. Hausman. May 1940.
679. Diseases of the gardenia. P. P. Pirone. May 1940.
680. Analyses of commercial feeding stuffs and registrations for 1940. C. S. Cathcart. Aug. 1940.
681. Peat and its uses. S. A. Waksman. May 1940.
682. Effect of high humidity on egg quality during short holding periods. F. P. Jeffrey and V. L. Darago. Oct. 1940.

683. Effect of ensiling upon the composition of forage crops. M. W. Taylor, C. B. Bender, and W. C. Russell. Nov. 1940.
684. A survey of practices and costs of producing grass silage on 50 New Jersey farms. J. W. Carnecross, A. G. Waller, and Emil Rauchenstein. Oct. 1940.
685. The Khaki-Campbell egg-type duck. W. C. Thompson. Nov. 1940.
686. Analyses of materials sold as insecticides and fungicides during 1940. C. S. Cathcart and R. L. Willis. Nov. 1940.

MISCELLANEOUS

- Analyses of United States soils: Section I, North Atlantic States. J. G. Lipman, J. S. Joffe, and A. B. Conybeare. June 1940.

NEW MEXICO AGRICULTURAL EXPERIMENT STATION, STATE COLLEGE

BULLETINS

260. Corn investigations in New Mexico. Glen Staten, D. R. Burnham, and John Carter, Jr. Apr. 1939.
261. Type of farming and ranching areas in New Mexico, Part I. Byron Hunter, P. W. Cockerill, and H. B. Pingrey. May 1939.
262. Cottonseed meal for fattening yearling steers. J. H. Knox and P. E. Neale. May 1939.
263. (Technical.) The effect of irrigation and cropping on desert soils. C. W. Botkin and L. B. Shires. May 1939.
264. The causes and control of chlorosis in New Mexico. R. F. Crawford. June 1939.
265. Dry-farming investigations at the Mosquero, N. M., experimental field. John Carter, Jr. June 1939.
266. Dusting and spraying for the control of insect pests of the Irish potato. J. R. Eyer and J. V. Enzie. Nov. 1939.
267. Type of farming and ranching areas in New Mexico, Part II. P. W. Cockerill, Byron Hunter, and H. B. Pingrey. Dec. 1939.
268. (Technical.) Effect of cooking on the riboflavin and vitamin B₆ content of pinto beans. E. M. Lantz. Dec. 1939.
269. Precipitation and evaporation in New Mexico. E. L. Hardy, J. C. Overpeck, and C. P. Wilson. Dec. 1939.
270. Pinto bean improvement. G. N. Stroman, John Carter, Jr., and J. C. Overpeck. Mar. 1940.
271. Field-crop experiments at Las Vegas, 1937-1939. John Carter, Jr. May 1940.
272. Cottonseed meal, hegari, and alfalfa hay for the fattening of lambs. P. E. Neale. June 1940.
273. The population of New Mexico, its composition and changes. Sigurd Johansen. June 1940.

NEW YORK (CORNELL) AGRICULTURAL EXPERIMENT STATION, ITHACA

BULLETINS

712. State reforestation in two New York counties, the story of the land and the people. T. E. LaMont. Feb. 1939.
713. The composition of rural households. W. A. Anderson. Feb. 1939.
714. Problems in the production of Iceberg lettuce in New York. J. E. Knott, E. M. Andersen, and R. D. Sweet. Mar. 1939.
715. Economic studies of vegetable farming in New York: VI, Production and marketing of celery, 1936. J. N. Efferson. Mar. 1939.
716. Relation of market quality to the price received for Long Island cauliflower. J. D. Hartman. Apr. 1939.
717. Apple orchards, cost of developing, values, and financial returns. G. P. Scoville. May 1939.
718. Downy mildew of spinach and its control. M. C. Richards. May 1939.
719. Relation of size of cow to production and cost of production of milk on 94 grade A farms in the Tully-Homer area. E. G. Misner. June 1938.
720. An economic study of land utilization in Chautauqua County, New York. Alexander Joss. June 1939.
721. An economic study of fruit and vegetable wholesaling and jobbing firms in New York City. T. N. Gearreald. June 1939.
722. Soybeans as a source of fat in the dairy ration. L. A. Maynard, K. E. Gardner, and Adrian Hodson. June 1939.
723. Wax emulsions for vegetables. Hans Platenius. Sept. 1939.
724. Farm refrigerated storages. E. L. Arnold. Sept. 1939.

725. The value of corn gluten meal for feeding poultry. R. C. Ringrose, L. C. Norris, and G. F. Heuser. Oct. 1939.
726. Results of farm-mortgage financing in eleven counties in New York State. S. W. Warren. Dec. 1939.
727. An economic study of land utilization in Yates County, New York. M. D. Woodin. Jan. 1940.
728. An economic study of farming in Tompkins County, New York, 1937. P. A. Henderson. Mar. 1940.
729. Receipts and expenditures of rural New York counties. O. H. White. Apr. 1940.
730. Protein and vitamin supplements for growing and fattening pigs. J. P. Willman and F. B. Morrison. Apr. 1940.
731. Experiments with new electric devices for pasteurizing soils. A. G. Newhall. Apr. 1940.
732. Handling and shipping lettuce in New York. Hans Platenius. May 1940.
733. Natural increase in the population of New York State. W. A. Anderson. May 1940.
734. Use of time in its relation to home management. Jean Warren. June 1940.
735. An analysis of dealers' sales of milk and cream in the New York market, 1933-38. C. J. Blanford. June 1940.
736. Selective factors in migration from a New York rural community. A. A. Gessner. June 1940.
737. Some facts concerning country fruit and vegetable auctions in Eastern Seaboard States. E. W. Cake. June 1940.
738. Biology and control of the wheat wireworm, *Agriotes mancus* Say. W. A. Rawlins. June 1940.
739. The incubation test as an indication of the keeping quality of butter. H. B. Naylor and E. S. Guthrie. June 1940.
740. Uninfected elm wood as a source of the bark beetle (*Scolytus multistriatus* Marsham) carrying the Dutch elm disease pathogen. D. L. Collins, K. G. Parker, and Henry Dietrich. July 1940.
741. The business of milk retailing by producer-distributors in New York State. E. M. Hughes. Nov. 1940.
742. The yellows disease of lettuce and endive. M. B. Linn. Nov. 1940.
743. Installment credit in the sale of washing machines. M. A. Rollins. Nov. 1940.
744. Marketing New York livestock. W. M. Curtiss and E. H. Matzen. Dec. 1940.
745. Effects of mineral-nutrient deficiencies and excesses upon the vegetative growth and flowering of sweet peas. Kenneth Post. Dec. 1940.
746. Soil and field-crop management for southeastern New York. A. F. Gustafson. Dec. 1940.

MEMOIRS

218. The effect of temperature on the photoperiodic response of spinach. J. E. Knott. Jan. 1939.
219. Neutralization curves for the humic acids of peat soils. B. D. Wilson and E. V. Staker. Feb. 1939.
220. Joint correlation applied to the quality and price of McIntosh apples. J. R. Raeburn. Mar. 1939.
221. Leguminous plants and their associated organisms. J. K. Wilson. Mar. 1939.
222. The effect of sulfur fungicides on the photosynthesis and respiration of apple leaves. R. A. Hyre. Apr. 1939.
223. The effect of temperature and relative humidity on the powdery mildew of roses. Karla Longrée. Apr. 1939.
224. Studies on narcissus mosaic. F. A. Haasis. Apr. 1939.
225. The culinary quality of apples as determined by the use of New York State varieties. M. C. Pfund. May 1939.
226. Some comparisons between analyses of narrative and film records of behavior and guidance of children. E. B. Waring, F. M. Dwyer, and Elsie Junkin. June 1939.
227. The effect of sulfur dioxide on the nutritive value of alfalfa hay. J. K. Loosli, B. L. Richards, Jr., L. A. Maynard, and L. M. Massey. Oct. 1939.
228. The calcium content of the foliage of forest trees. R. F. Chandler, Jr. Dec. 1939.
229. Forest-site quality studies in the Adirondacks: I, Tree growth as related to soil morphology. R. L. Donahue. Feb. 1940.
230. The morphology of the apple and other pome fruits. L. H. MacDaniels. Apr. 1940.
231. Analyzing data for relationships. F. A. Harper. June 1940.
232. A catalogue of the Plecoptera of the world. P. W. Claassen. June 1940.
233. Germination of the conidia of *Sclerotinia fructicola*, with special reference to the toxicity of copper. C. K. Lin. Dec. 1940.

NEW YORK STATE AGRICULTURAL EXPERIMENT STATION, GENEVA

BULLETINS

- 685. Controlling common scab of the potato on Long Island by the addition of mercury compounds to the fertilizer mixture and the relation of soil reaction to the treatment. H. S. Cunningham and P. H. Wessels. Apr. 1939.
- 686. Yellow sweet corn hybrids for New York. W. D. Enzie. July 1939.
- 687. A trial of new varieties of hops for New York. J. D. Harlan. July 1939.
- 688. The biology and control of the round-headed apple-tree borer, *Saperda candida* Fabricius. A. D. Hess. Mar. 1940.
- 689. Yellows-resistant varieties of cabbage suitable for New York State. O. A. Reinking and W. O. Gloyer. May 1940.
- 690. Freezing and storage of foods in freezing cabinets and locker plants. D. K. Tressler and C. W. Dubois. May 1940.
- 691. Experiments in orchard soil management, fertilizers, mulches, and cover crops. R. C. Collison. July 1940.
- 692. The cranberry rootworm as an apple pest. S. W. Harman. July 1940.
- 693. The relation between quality and chemical composition of canned sauerkraut. C. S. Pederson. Aug. 1940.
- 694. A comparison of new improved Semesan Bel and different strengths of yellow oxide of mercury as materials for treating seed potatoes under Long Island conditions. H. S. Cunningham. Aug. 1940.
- 695. Non-arsenical dusts for cauliflower and cabbage worm control on Long Island. H. C. Hockett. Aug. 1940.
- 696. Dextrose and corn sirup for frozen desserts. A. C. Dahlberg and E. S. Penczek. Oct. 1940.

TECHNICAL BULLETINS

- 252. The use of calcium in the commercial canning of whole tomatoes. Z. I. Kertesz, T. G. Tolman, J. D. Loconti, and E. H. Ruyle. Apr. 1940.
- 253. Factors affecting the quality of Limburger cheese made from pasteurized milk. M. W. Yale. July 1940.
- 254. The effect of the time and temperature or pasteurization upon some of the properties and constituents of milk. R. F. Holland and A. C. Dahlberg. Oct. 1940.
- 255. Coniferous tree seed testing and factors affecting germination and seed quality. C. E. Heit and E. J. Eliason. Oct. 1940.

NORTH CAROLINA AGRICULTURAL EXPERIMENT STATION, STATE COLLEGE STATION, RALEIGH

BULLETINS

- 320. Breeding new strawberry varieties. G. M. Darrow and E. B. Morrow. Feb. 1939.
- 321. Fall fertilization of peach trees in the Sandhills. C. F. Williams. Apr. 1939.
- 322. Nitrogen fertilization of bearing Elberta peach trees in the Sandhills. C. F. Williams. Apr. 1939.
- 323. Quality of North Carolina cotton, 1928-1936. W. B. Lanham, G. R. Smith, and R. H. Raper. May 1939.
- 324. Rural youth in North Carolina, a study of three selected areas. R. M. Williams. June 1939.
- 325. Cotton marketing in the Coastal Plain area of North Carolina. J. W. Wright and G. R. Smith. June 1939.
- 326. Effect of substituting peanut meal in part for the animal protein in laying mash on egg production, hatchability and livability of chicks. R. S. Dearstyne, C. O. Bollinger, and H. P. Brigman. Mar. 1940.
- 327. The Massey strawberry. G. M. Darrow and E. B. Morrow. Aug. 1940.
- 328. Wheat varieties for North Carolina. G. K. Middleton, W. H. Chapman, J. W. Hendricks, and D. W. Colvard. Aug. 1940.

TECHNICAL BULLETINS

- 60. Changes in meat and wool characteristics resulting from the use of purebred mutton rams on native ewes. J. E. Foster and E. H. Hostetler. Apr. 1939.
- 61. Production of firm pork from peanut-fed pigs: An investigation of the factors concerned in the production of soft pork when peanuts are fed and of methods by which firm pork can be produced. E. H. Hostetler, J. O. Halverson, and F. W. Sherwood. June 1939.

62. Paratyphoid of pigeons: I, Serological, bacteriological, and hematological studies of spontaneously infected birds. H. C. Gauger, R. E. Greaves, and F. W. Cook. Feb. 1940.
63. Feeding soybeans to pigs, the effect on gains and a method of producing firm carcasses. E. H. Hostetler and J. O. Halverson. Mar. 1940.
64. North Carolina cotton prices and local marketing practices. G. R. Smith. June 1940.
65. The trailing raspberry, *Rubus parvifolius* L., characteristics and breeding. C. F. Williams and G. M. Darrow. Aug. 1940.
66. Agronomic farm practices in Franklin County, North Carolina. J. F. Lutz and C. B. Williams. Sept. 1940.

NORTH DAKOTA AGRICULTURAL EXPERIMENT STATION, STATE COLLEGE STATION, FARGO

BULLETINS

291. (Technical.) Exchange of certain alternative stable characters in crosses between dent and flint corn. P. J. Olson. June 1939.
292. Russian knapweed and perennial peppergrass. E. A. Helgeson. May 1940.
293. Problems of rural youth in selected areas of North Dakota. D. G. Hay, J. P. Greenlaw, and L. E. Boyle. June 1940.
294. Farmers' cooperative marketing and purchasing associations in North Dakota. W. L. Ettesvold. June 1940.
295. Bacterial ring rot of the potato, investigation on possible dissemination by grasshoppers. W. E. Brentzel and J. A. Munro. Dec. 1940.

OHIO AGRICULTURAL EXPERIMENT STATION, WOOSTER

BULLETINS

599. Spraying program and pest control for fruit crops. Jan. 1939.
600. Progress of agricultural research in Ohio, 1937-1938: Fifty-seventh annual report of the Ohio agricultural experiment station for the year ending June 30, 1938. Edmund Secrest. Feb. 1939.
601. The influence of position isomerism in azo dyes upon their fastness to light and washing. M. E. Griffith and W. R. Brode. Mar. 1939.
602. Ohio agricultural statistics, 1937. G. S. Ray, O. M. Frost, and P. P. Wallrabenstein. Mar. 1939.
603. Timothy culture. M. W. Evans, F. A. Welton, and R. M. Salter. May 1939.
604. The relationship between soil maintenance and profitable farming. F. L. Morison and J. I. Falconer. June 1939.
605. Farm manure. R. M. Salter and C. J. Schollenberger. Sept. 1939.
606. Attitudes of farmers toward cooperative marketing. G. F. Henning and E. B. Poling. Sept. 1939.
607. Substitutes for corn for growing and fattening pigs. W. L. Robison. Sept. 1939.
608. Some observations on fifty years of Ohio weather. C. A. Patton. Nov. 1939.
609. Ten years of farm sales of milk in four Ohio markets. R. W. Sherman and C. G. McBride. Dec. 1939.
610. Anatomical and physiological changes in the pituitary glands of vitamin A deficient rats. T. S. Sutton and B. J. Brief. Dec. 1939.
611. Deficiency symptoms of greenhouse flowering crops. Alex Laurie and Arnold Wagner. Jan. 1940.
612. Ohio agricultural statistics, 1938. G. S. Ray, O. M. Frost, and P. P. Wallrabenstein. Mar. 1940.
613. Lawn experiments. F. A. Welton and J. C. Carroll. Aug. 1940.
614. The Ohio farmer and his milk market. C. G. McBride. Aug. 1940.
615. Ohio potato diseases. P. E. Tilford. Aug. 1940.
616. Growing ornamental greenhouse crops in gravel culture. Alex Laurie and D. C. Kiplinger. Dec. 1940.
617. Progress of agricultural research in Ohio, 1938-1939: Fifty-eighth annual report of the Ohio agricultural experiment station for the year ending June 30, 1939. Edmund Secrest. Dec. 1940.

OKLAHOMA AGRICULTURAL EXPERIMENT STATION, STILLWATER

BULLETINS

236. Turkey production. T. T. Milby, R. G. Jaap, and R. B. Thompson. Feb. 1939.
237. Beef cattle feeding investigations. W. L. Blizzard. Nov. 1939.

238. Oklahoma farm price statistics, 1910-38. T. R. Hedges and K. D. Blood. Dec. 1939.
239. Farm tenancy in Oklahoma. J. H. Southern. Dec. 1939.
240. A homemade egg-cooler for farm use. R. B. Thompson and C. A. Roberts. Apr. 1940.
241. Legal aspects of landlord-tenant relationships in Oklahoma. W. J. Coleman and H. A. Hockley. Aug. 1940.
242. The carotene (provitamin A) content of Oklahoma feeds. Robert Wall. May 1940.
243. Investigations of the cause and prevention of perosis. Robert Penquite, V. G. Heller, and R. B. Thompson. June 1940.
244. Feeding laying hens. Robert Penquite and R. B. Thompson. Oct. 1940.
245. The brown elm scale, description and control. F. A. Fenton. Nov. 1940.

TECHNICAL BULLETINS

6. Physiological factors affecting milk flavor, with a consideration of the validity of flavor scores. Earl Weaver. July 1939.
7. An experimental study of inbreeding and outbreeding swine. O. S. Willham and W. A. Craft. Sept. 1939.
8. The genus *Hymenolepis* Weinland 1858. R. C. Hughes. June 1940.
9. The construction and standardization of a scale for the measurement of the socio-economic status of Oklahoma farm families. W. E. Sewell. Apr. 1940.

OREGON AGRICULTURAL EXPERIMENT STATION, CORVALLIS

BULLETINS

360. Black disease. J. N. Shaw, O. H. Muth, and L. Seghetti. Mar. 1939.
361. Sudan grass, millets, and sorghums in Oregon. H. A. Schoth and H. H. Rampton. Mar. 1939.
362. Costs and practices in producing honey in Oregon. A. S. Burrier, F. E. Todd, H. A. Scullen, and W. W. Gorton. June 1939.
363. Controlling seed-borne stinking smut of wheat by disinfectants. Roderick Sprague. June 1939.
364. Cost and efficiency in producing hops in Oregon. G. W. Kuhlman and R. E. Fore. June 1939.
365. Composition, rating, and conservation of Willamette Valley soils. W. L. Powers, J. S. Jones, and C. V. Ruzek. July 1939.
366. The value of irrigated pastures for dairy cattle. H. P. Ewalt and I. R. Jones. Sept. 1939.
367. Pulpy kidney disease in Oregon lambs (infectious entero-toxemia). J. N. Shaw, O. H. Muth, and L. Seghetti. Oct. 1939.
368. Vacuum pasteurization of cream for butter. G. H. Wilster. Jan. 1940.
369. House planning ideas of Oregon rural women. Maud Wilson and Laura Wells. Feb. 1940.
370. Fattening lambs on Oregon feedstuffs. D. E. Richards. Apr. 1940.
371. Rural tax delinquency study of the State of Oregon. W. H. Dreesen. June 1940.
372. Soil moisture, root distribution and aeration as factors in nut production in western Oregon. C. E. Schuster and R. E. Stephenson. June 1940.
373. Land use and production costs on dry-land wheat farms, Columbia Basin, Oregon. A. S. Burrier and W. W. Gorton. June 1940.
374. Anjou pear responses to irrigation in a clay adobe soil. W. W. Aldrich, M. R. Lewis, R. A. Work, A. L. Ryall, and F. C. Reimer. July 1940.
375. Some economic implications of milk control in Oregon. D. B. DeLoach and W. A. West. Aug. 1940.
376. The Oregon method of controlling moisture and fat in butter. G. H. Wilster and R. E. Stout. Aug. 1940.
377. Some economic considerations of marketing Oregon fruits and vegetables through cooperative canning associations. D. B. DeLoach and C. W. Peters. Oct. 1940.
378. Some economic considerations affecting the marketing of Oregon dried prunes through cooperative dried-prune-packing associations. D. B. DeLoach and C. W. Peters. Nov. 1940.
379. Preparation of starter for cheese, buttermilk, butter. G. H. Wilster and F. E. Price. Dec. 1940.
380. Feeding alfalfa hay alone and with concentrates to dairy cows. D. H. Sherwood and H. K. Dean. Dec. 1940.
381. Ranch organization and range land use in Coos and Curry Counties, Oregon. H. R. Hochmuth and W. W. Gorton. Dec. 1940.
382. Cause and control of the *Coryneum* blight of oriental arborvitae. J. A. Milbrath and F. P. McWhorter. Dec. 1940.

383. Sampling, preserving, and testing milk. G. H. Wilster and R. P. Robichaux. Dec. 1940.
384. Financing fire protection for timber lands under Oregon laws. W. H. Dreesen. Dec. 1940.
385. The removal of leaves from rose plants at the time of digging. J. A. Milbrath, Elmer Hansen, and Henry Hartman. Dec. 1940.
386. Surplus Leghorn cockerels as broilers. W. T. Cooney and F. E. Price. Dec. 1940.

PENNSYLVANIA AGRICULTURAL EXPERIMENT STATION, STATE COLLEGE

BULLETINS

370. Fertility studies on Dekalb soil, and their application to farmland in Pennsylvania. J. W. White, F. J. Holben, C. D. Jeffries, and A. C. Richer. Jan. 1939.
371. Phosphorus deficiency among cattle in Pennsylvania. E. B. Forbes and S. R. Johnson. Jan. 1939.
372. Methods and costs of marketing potatoes in Pennsylvania. W. R. Whitacre. Feb. 1939.
373. Orchard soil management, some effects of different practices on the soil. N. J. Shaulis and F. G. Merkle. Feb. 1939.
374. Out-of-school rural youth in Pennsylvania, an analysis of high school and post-high school records of 185 rural boys who dropped out of school before graduation. C. S. Anderson. Feb. 1939.
375. Electric milk refrigeration at the farm. J. E. Nicholas and R. U. Blasingame. Feb. 1939.
376. Apple insect control studies in 1938 (progress report). H. N. Worthley and H. M. Steiner. Feb. 1939.
377. Breeding poultry for viability. D. R. Marble. Mar. 1939.
378. Control of crop nutrition by the method of foliar diagnosis. Walter Thomas and W. B. Mack. Apr. 1939.
379. Farm practices and management in central Pennsylvania. J. E. McCord. May 1939.
380. Comparative digestibility of soft curd milks in vitro. F. J. Doan and C. C. Flora. Apr. 1939.
381. Dry skim milk in rations for growing, laying and breeding fowls. W. H. Ott, H. C. Knandel, and R. V. Boucher. May 1939.
382. Fifty-second annual report of the Pennsylvania agricultural experiment station for the fiscal year ended June 30, 1939. R. L. Watts [and others]. Sept. 1939.
383. Farm tenancy in Pennsylvania. P. I. Wrigley. Sept. 1939.
384. Prices and Pennsylvania agriculture. E. F. Anderson and F. P. Weaver. Oct. 1939.
385. Out-of-school rural youth enter farming, a study of young men, former students of vocational agriculture in Pennsylvania, who quit school and are farming. C. S. Anderson. Jan. 1940.
386. Zinnia field trials, 1939. E. I. Wilde and C. B. Link. Dec. 1939.
387. The rose leaf beetle in Pennsylvania. Merrill Wood. Feb. 1940.
388. Forces influencing rural life, a study of a central Pennsylvania community. M. E. John. Feb. 1940.
389. An improved ration for starting ring-necked pheasants. W. C. Skoglund. Mar. 1940.
390. Experimental spraying to control European red mite (*Paratetranychus pilosus* C & F) and rosy apple aphid (*Anuraphis roseus* Baker) in 1939, (progress report). H. N. Worthley and H. M. Steiner. Feb. 1940.
391. The utilization of certain feeding stuffs by cattle. E. B. Forbes, J. W. Bratzler, and C. E. French. Apr. 1940.
392. The biology and control of wireworms, a review of the literature. C. A. Thomas. May 1940.
393. Fertilizer experiments with tomatoes, 1919-39. W. B. Mack, G. J. Stout, and E. M. Rahn. Apr. 1940.
394. Coniferous forest plantings in central Pennsylvania. D. D. Stevenson and R. A. Bartoo. Apr. 1940.
395. Bone meal versus no bone meal in the dairy ration, results of a long-time feeding experiment with a dairy ration consisting of timothy hay, corn silage, and concentrates. S. I. Bechdel, P. S. Williams, J. F. Shigley, and A. A. Borland. Apr. 1940.
396. Dehydrated and sun-cured hay. S. I. Bechdel, A. W. Clyde, C. O. Cromer, and P. S. Williams. Apr. 1940.
397. Soybean oilmeal for growing lambs. T. B. Keith, R. C. Miller, and W. L. Henning. Apr. 1940.
398. Soil testing, operation, interpretation, and application. F. G. Merkle. Apr. 1940.

399. Science for the farmer: Fifty-third annual report of the Pennsylvania agricultural experiment station, for the fiscal year ended June 30, 1940. S. W. Fletcher. Sept. 1940.
400. Deposition and retention of sprays on apples, II. D. E. H. Frear and H. N. Worthley. Sept. 1940.
401. Levels of protein for pigs. T. B. Keith and R. C. Miller. Oct. 1940.

PUERTO RICO AGRICULTURAL EXPERIMENT STATION, MAYAGUEZ

BULLETIN

39. Insects and a mite found on cotton in Puerto Rico, with notes on their economic importance and natural enemies. L. C. Fife. Mar. 1939.

RHODE ISLAND AGRICULTURAL EXPERIMENT STATION, KINGSTON

BULLETINS

271. Soybean varieties for hay and grain. T. E. Odland and G. F. Lea. Aug. 1939.
272. Early cabbage experiments. F. K. Crandall. Aug. 1939.
273. Studies of infectious bronchitis. J. P. Delaplane and H. O. Stuart. Aug. 1939.
274. Adjusting farm management to changing economic situations. J. L. Tennant. Aug. 1939.
275. A study of land utilization in Providence County, Rhode Island. B. E. Gilbert. 1940.
276. The care and maintenance of wood floor finishes in the home. B. M. Kuschke. 1940.

SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION, CLEMSON

BULLETINS

318. Farming possibilities in Horry County, South Carolina. Oscar Steanson, M. H. Sutherland, and M. C. Rochester. May 1939.
319. Farm family diets in the lower Coastal Plains of South Carolina. A. M. Moser. June 1939.
320. An analytical study of a rural school area. H. L. Fulmer. June 1939.
321. Effects of certain treatments on the carbohydrate reserves of asparagus crowns. L. E. Scott, J. H. Mitchell, and R. A. McGinty. July 1939.
322. The Mexican bean beetle in South Carolina. Franklin Sherman and J. N. Todd. Aug. 1939.
323. The probable economic effects of a homestead exemption act on public revenues in South Carolina. G. H. Aull. Aug. 1939.
324. Inspection and analysis of commercial fertilizers. B. D. Cloaninger. Dec. 1939.
325. A rural school area in central South Carolina. H. L. Fulmer. Mar. 1940.
326. Composition and characteristics of the population of rural relief households in South Carolina. B. O. Williams and W. S. Crawford. June 1940.
327. Short-term credit for agricultural production in South Carolina. W. T. Ferrier. June 1940.
328. Sharecroppers and wage laborers on selected farms in two counties in South Carolina. E. J. Holcomb and G. H. Aull. June 1940.
329. Biochemical and nutritional studies of dehydrated sweet potato. E. J. Lease and J. H. Mitchell. June 1940.
330. Inspection and analysis of commercial fertilizers. B. D. Cloaninger. Oct. 1940.
331. Rural land holdings in South Carolina. G. H. Aull. Oct. 1940.

SOUTH DAKOTA AGRICULTURAL EXPERIMENT STATION, BROOKINGS

BULLETINS

327. Basic trends of social change in South Dakota: I. Population tendencies. W. F. Kumlien. Apr. 1939.
328. Cooperatives in South Dakota. L. M. Brown and R. J. Penn. Apr. 1939.
329. Tankage, a protein supplement for fattening beef calves. J. W. Wilson and Turner Wright. June 1939.
330. Cereal grains in turkey rations. W. E. Poley and W. O. Wilson. June 1939.
331. Factors affecting the composition of milk. D. H. Jacobsen and G. C. Wallis. June 1939.
332. Dependent children in South Dakota. R. L. Woolbert and R. L. McNamara. Jan. 1940.
333. Homemade rubber tired carts and trailers. II. H. DeLong. Feb. 1940.

334. Basic trends of social change in South Dakota: V, Public health facilities. W. F. Kumlien. Mar. 1940.
335. Capon production in South Dakota. W. E. Poley. Apr. 1940.
336. Paints and plasters for rammed earth walls. R. L. Patty. May 1940.
337. Proso millet and oats in poultry rations. W. O. Wilson and W. E. Poley. May 1940.
338. Basic trends of social change in South Dakota: VI, Education in transition. W. F. Kumlien. June 1940.
339. New hardy fruits for the Northwest. N. E. Hansen. June 1940.
340. Blister beetles and their control. G. I. Gilbertson and W. R. Horsfall. June 1940.
341. Planning minimum sized farms for the Beadle County area in central South Dakota. J. L. Paschal, A. G. Nelson, and Olav Rogeness. Jan. 1940.
342. Spring wheat varieties in South Dakota. S. P. Swenson. June 1940.
343. Farm performance in north central South Dakota, 1930-1939. Max Meyers. June 1940.
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345. Possibilities of rural zoning in South Dakota, a study in Corson County. R. J. Penn, W. F. Musbach, and W. C. Clark. Sept. 1940.
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1. A study of sorghum with reference to the content of HCN. C. J. Franzke, L. F. Puhr, and A. N. Hume. Apr. 1939.
2. Selenium in rocks, soils, and plants. A. L. Moxon, O. E. Olson, and W. V. Searight. May 1939.

TENNESSEE AGRICULTURAL EXPERIMENT STATION, KNOXVILLE

BULLETINS

168. Home-preparation of fruits and vegetables for the freezer-locker. Harry Carlton. Jan. 1939.
169. Types of farming in Tennessee. B. H. Luebke, S. W. Atkins, C. E. Allred, and W. J. Roth. Apr. 1939.
170. Drying hay in the barn and testing its feeding value. J. W. Weaver, Jr., and C. E. Wylie. Aug. 1939.
171. Lespedeza seed-harvesting equipment. H. A. Arnold. Mar. 1940.
172. Legume silage as a poultry feed. P. W. Allen, M. Jacob, N. O. Sjolander, and J. A. McBee. Sept. 1940.

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1. Elements of life: A study of the effect of mineral differences on soils, plants, animals, living conditions, comparing the Central Basin area and the Highland Rim area. June 1940.

TEXAS AGRICULTURAL EXPERIMENT STATION, COLLEGE STATION

BULLETINS

567. Some body measurements of Texas school children. Jessie Whitacre. Jan. 1939.
568. An economic study of farm organization and operation in the High Plains cotton area of Texas. B. H. Thibodeaux, C. A. Bonnen, and A. C. Magee. Jan. 1939.
569. Comparative values of various protein feeds for growing chicks. R. M. Sherwood and J. R. Couch. Jan. 1939.
570. Pasture improvement in the Gulf Coast Prairie of Texas. R. H. Stansel, E. B. Reynolds, and J. H. Jones. Jan. 1939.
571. The utilization of the energy of feed by growing chickens. G. S. Fraps and E. C. Carlyle. Mar. 1939.
572. Fertilizer statistics for Texas, 1926-1938. G. S. Fraps and T. L. Ogier. Feb. 1939.
573. The control of cotton root rot in the Blackland region of Texas. H. E. Rea. Mar. 1939.
574. The origin of Indian corn and its relatives. P. C. Mangelsdorf and R. G. Reeves. May 1939.
575. Prickly pear eradication and control. W. H. Dameron and H. P. Smith. June 1939.
576. Lengthening the storage period of cucumbers. Jessie Whitacre, L. R. Hawthorn, and S. H. Yarnell. Aug. 1939.
577. Commercial fertilizers in 1938-39 and their uses. G. S. Fraps, T. L. Ogier, and S. E. Asbury. Sept. 1939.

578. Commercial feeding stuffs, from September 1, 1938 to August 31, 1939. F. D. Fuller and James Sullivan. Sept. 1939.
579. Iodine in Texas soils. G. S. Fraps and J. F. Fudge. Oct. 1939.
580. Mechanical harvesting of cotton as affected by varietal characteristics and other factors. H. P. Smith, D. T. Killough, D. L. Jones, and M. H. Byrom. Dec. 1939.
581. Chemical composition of the soils of Cass, Dickens, Falls, Hardeman, Polk, Scurry, and Wheeler Counties. G. S. Fraps and J. F. Fudge. Jan. 1940.
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583. Requirements of chickens for vitamin A when fed as carotene. R. M. Sherwood and G. S. Fraps. Mar. 1940.
584. Black kernel and white tip of rice. A. L. Martin and G. E. Altstatt. Mar. 1940.
585. Poisoning in sheep and goats by sacahuiste (*Nolina texana*) buds and blooms. F. P. Mathews. Apr. 1940.
586. Composition and utilization of range vegetation of Sutton and Edwards Counties. G. S. Fraps and V. L. Cory. June 1940.
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588. Values of various protein feeds for growing chicks. R. M. Sherwood and J. R. Couch. Aug. 1940.
589. Metabolizable energy of some chicken feeds. G. S. Fraps, E. C. Carlyle, and J. F. Fudge. Aug. 1940.
590. Distribution and variation of pocket gophers (genus *Geomys*) in the southwestern United States. W. B. Davis. Aug. 1940.
591. A population study of the gray squirrel, *Sciurus carolinensis carolinensis*, in eastern Texas. P. D. Goodrum. Aug. 1940.
592. Bob-white populations as affected by woodland management in eastern Texas. D. W. Lay. Aug. 1940.
593. Commercial fertilizers in 1939-40. G. S. Fraps, T. L. Ogier, and S. E. Asbury. Sept. 1940.
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595. Iodine in drinking waters, vegetables, cottonseed meal, and roughages. G. S. Fraps and J. F. Fudge. Nov. 1940.

UTAH AGRICULTURAL EXPERIMENT STATION, LOGAN

BULLETINS

284. Lygus bugs (*Lygus hesperus* Knight and *Lygus elisus* Van Duzee) in relation to alfalfa-seed production. C. J. Sorenson. Jan. 1939.
285. A study of farm organization by types of farms in Uinta Basin, Utah. G. T. Blanch. Jan. 1939.
286. Some trends in Utah's agriculture. W. U. Fuhrman. Jan. 1939.
287. Tests of corn varieties and hybrids in Utah. R. W. Woodward, D. C. Tingey, and R. J. Evans. May 1939.
288. Social conditions in the Delta area, Utah: Drainage and irrigation, soil, economic and social conditions, Delta area, Utah: Division 4, Social conditions. J. A. Geddes, C. D. Fredrickson, and E. C. Bergeson. June 1939.
289. Business analysis of farms in Utah County, Utah. W. U. Fuhrman and W. P. Thomas. Aug. 1939.
290. Phosphate in Utah. J. S. Williams. Aug. 1939.
291. Range resources of Rich County, Utah. L. A. Stoddart. Mar. 1940.
292. Effects of feeding ewe lambs during their first winter. A. C. Esplin, M. A. Madsen, and R. W. Phillips. Oct. 1940.
293. Velvon, a new smooth-awned barley. R. W. Woodward and D. C. Tingey. Nov. 1940.
294. Research aids Utah agriculture: Biennial report, Utah agricultural experiment station, [July] 1938 [to June] 1940. R. H. Walker. Dec. 1940.

VERMONT AGRICULTURAL EXPERIMENT STATION, BURLINGTON

BULLETINS

444. Some physiological responses to close pruning of northern white pine. W. R. Adams and M. R. Schneller. Jan. 1939.
445. The effect of 1936 flood deposits on Vermont farm lands. D. E. Dunklee and A. R. Midgley. Mar. 1939.

446. Early cut artificially dried hays for dairy cows. O. M. Camburn and C. H. Jones. Apr. 1939.
447. Commercial feeding stuffs. L. S. Walker, E. F. Boyce, and L. E. Davis. Apr. 1939.
448. Retail food prices in relation to amounts, styles, and containers. M. E. Tiffany. June 1939.
449. The relative economy of household production and purchase of four canned vegetables. E. G. Holmes. July 1939.
450. Incomes and expenditures of 299 Vermont village families. Marianne Muse and M. E. Openshaw. July 1939.
451. Clothing consumption of 299 village and 551 farm families in Vermont. M. E. Tiffany. July 1939.
452. Fifty-second annual report, 1938-1939. J. L. Hills. July 1939.
453. Commercial fertilizers. L. S. Walker, E. F. Boyce, and L. E. Davis. Sept. 1939.
454. Agricultural seed. A. S. Lutman. Nov. 1939.
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456. Effect of lime on the nitrogen content of cow manure. A. R. Midgley and W. O. Mueller. Apr. 1940.
457. The relation of bacteria and of oxygen to the flavor of milk susceptible to becoming oxidized. J. G. Leeder and E. O. Herreid. Apr. 1940.
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459. The conservation of alfalfa, timothy and soybean nutrients as silages and as hays. J. A. Newlander, H. B. Ellenberger, O. M. Camburn, and C. H. Jones. June 1940.
460. The cause and nature of overliming injury. A. R. Midgley and D. E. Dunklee. June 1940.
461. The dissolved gases in milk and dye reduction. J. M. Frayer. June 1940.
462. Cost of transporting milk and cream to Boston. L. T. Sonley. July 1940.
463. Fifty-third annual report, 1939-1940. J. L. Hills. Aug. 1940.
464. Commercial fertilizers; pastures and plant food. L. S. Walker, E. F. Boyce, and H. J. Cannon. Sept. 1940.
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466. Price variations among retail grocery stores of Burlington, Vermont. D. D. Nuetzman and Marianne Muse. Sept. 1940.
467. Bitter pit of apple: I, In orchard and in storage. M. B. Cummings and R. G. Dunning. Dec. 1940.
468. Commercial feeding stuffs. L. S. Walker, E. F. Boyce, and H. J. Cannon. Dec. 1940.
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BULLETINS

319. Methods and machinery for harvesting soybeans. J. W. Sjogren. Jan. 1939.
320. Baits and bait traps in codling moth control. M. L. Bobb, A. M. Woodside, and R. N. Jefferson. Feb. 1939.
321. Fishy flavor in turkey meat caused by feeding menhaden fish meal. R. L. Bryant and G. T. Stevenson. Mar. 1939.
322. Dormant and delayed dormant sprays for the control of rosy apple aphids and scale insects. W. S. Hough. July 1939.
323. A method of raising turkeys in confinement to prevent parasitic diseases. E. P. Johnson. Nov. 1939.
324. Blue mold (downy mildew) of tobacco and its control. Jan. 1940.
325. A study of electric roasters. P. B. Potter and E. C. Neale. July 1940.
326. Cull apples for dairy cows. A. D. Pratt and C. W. Holdaway. Aug. 1940.
327. Farm management aspects of soil conservation on flue-cured tobacco farms in Virginia. W. L. Gibson, Jr. Sept. 1940.
328. Experiments with lespedeza. A. L. Grizzard and T. B. Hutcheson. Dec. 1940.

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64. Flue-cured tobacco farm management. F. L. Underwood. Jan. 1939.
65. Timothy hay compared with alfalfa hay as a feed for dairy cows, supplemental factors influencing the milk-producing value of alfalfa hay and timothy hay in feeding dairy cows. C. W. Holdaway, W. B. Ellett, J. F. Eheart, and A. D. Pratt. Apr. 1939.
66. Economics of flue-cured tobacco farming. W. L. Gibson, Jr. Apr. 1940.
67. An analysis of peanut-cotton-hog farm business in a depression year. F. L. Underwood. July 1940.

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WASHINGTON AGRICULTURAL EXPERIMENT STATION, PULLMAN

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369. Fruit trees in the Wenatchee-Okanogan District, Washington. W. W. Rufener. Feb. 1939.
370. Seed flax in eastern Washington. O. E. Barbee and E. G. Schafer. Mar. 1939.
371. Cooperative purchasing in Washington. E. F. Dummeier. Mar. 1939.
372. Finishing rations for turkeys. E. I. Robertson, J. S. Carver, and J. W. Cook. Mar. 1939.
373. (Series in rural social institutions, no. 1.) Washington County weekly newspapers, their distribution and characteristics, 1902-1938. C. F. Reuss. Apr. 1939.
374. Farming systems and practices and their relationship to soil conservation and farm income in the wheat region of Washington. B. H. Pubols, A. E. Orr, and C. P. Heisig. July 1939.
375. Further studies on the vitamin A and C content of Washington grown apples. E. N. Todhunter. July 1939.
376. Reclamation of saline (alkali) soil in the Yakima Valley, Washington. C. A. Larson. July 1939.
377. Economic conditions and problems of agriculture in the Yakima Valley, Washington, the agriculture and its setting. E. B. Hurd and H. F. Hollands. July 1939.
378. (Series in rural population, no. 4.) The drought farmer adjusts to the West. Richard Wakefield and P. H. Landis. July 1939.
379. Black root of sugar beets in the Puget Sound section of Washington. Leo Campbell. July 1939.
380. (Rural sociology series in population, no. 5) Social characteristics of part-time farmers in Washington. C. F. Reuss. July 1939.
381. Methods of feeding laying hens. E. I. Robertson, J. S. Carver, and J. W. Cook. July 1939.
382. Barley production in Washington. O. E. Barbee. Sept. 1939.
383. The protein requirements of White Leghorn pullets. J. S. Carver, Victor Heiman, J. W. Cook, and J. L. St. John. Sept. 1939.
384. Forty-ninth annual report for the fiscal year ended June 30, 1939. E. C. Johnson [and others]. Dec. 1939.
385. Leasing Washington farms. A. E. Orr. Jan. 1940.
386. (Technical paper.) The feeding value of alfalfa hay compared with mixed hay and grass silage as a ration for dairy cattle. R. E. Hodgson and J. C. Knott. Jan. 1940.
387. (Series in rural social institutions, no. 2.) Content of Washington weekly newspapers. C. F. Reuss. Feb. 1940.
388. Gross value of protein supplements for poultry. E. I. Robertson, J. S. Carver, and J. W. Cook. July 1940.
389. The influence of alfalfa on the abundance of the pea aphid on peas grown for canning in southeastern Washington. R. D. Eichmann and R. L. Webster. Aug. 1940.
390. Leaf curl and mosaic of geranium. L. K. Jones. Sept. 1940.
391. Production and marketing of dry peas in the Palouse area. W. W. Rufener. Dec. 1940.
392. Cooperative field experiments with commercial fertilizer mixtures. L. C. Wheeting. Dec. 1940.
393. Economic conditions and problems of agriculture in the Yakima Valley, Washington: The Yakima-Tieton irrigation district. E. B. Hurd and H. F. Hollands. Dec. 1940.
394. Fiftieth annual report for the fiscal year ended June 30, 1940. E. C. Johnson [and others]. Dec. 1940.

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156. Diesel tractor engines. A. C. Jacquot. Jan. 1939.
157. Some things a farmer should know about electricity. H. L. Garver. Jan. 1939.
158. Control of rots of apples. F. D. Heald. Sept. 1939.
159. Trees for Washington farms. J. P. Nagle and E. H. Steffen. Feb. 1940.

WEST VIRGINIA AGRICULTURAL EXPERIMENT STATION, MORGANTOWN

BULLETINS

291. Certain economic aspects of agriculture in the Jackson County soil-conservation area. E. C. Weitzell. July 1939.
292. Types of farming in West Virginia. W. W. Armentrout and T. D. Johnson. Aug. 1939.
293. Economic implications of soil conservation in Marshall County. E. C. Weitzell. Aug. 1939.
294. The composition of different skeletal parts of experimental animals. C. E. Weakley, Jr., and R. B. Dustman. Sept. 1939.
295. The relative merits of producing creep-fed, feeder, and lot-fattened calves in West Virginia. C. V. Wilson and E. W. McComas. Nov. 1939.
296. Finishing two-year-old steers with grass and grain. E. A. Livesay. Oct. 1940.
297. Cooperative purchasing of farm supplies in West Virginia. M. A. Abrahamsen. Oct. 1940.
298. Epistle to the farm: The report of the director, West Virginia agricultural experiment station for the biennium 1938 to 1940. C. R. Orton. Dec. 1940.

WISCONSIN AGRICULTURAL EXPERIMENT STATION, MADISON

BULLETINS

443. What's new in farm science: Fifty-fifth annual report for the year ended June 30, 1938, Part II. Noble Clark and Niemen Hoveland. Mar. 1939.
444. Canning peas in Wisconsin. E. J. Delwiche, F. L. Musbach, W. B. Sarles, Emil Truog, J. C. Walker, and H. F. Wilson. May 1939.
445. Tobacco mosaic and its control. James Johnson and W. B. Ogden. Nov. 1939.
446. What's new in farm science: Fifty-sixth annual report for year ended June 30, 1939, Part I. Noble Clark and Niemen Hoveland. Nov. 1939.
447. Milk as a food throughout life. M. H. Irwin. Nov. 1939.
448. Tobacco varieties and strains in Wisconsin. James Johnson and W. B. Ogden. Dec. 1939.
449. What's new in farm science: Fifty-sixth annual report for the year ended June 30, 1939, Part II. Noble Clark and Niemen Hoveland. Mar. 1940.
450. What's new in farm science: Fifty-seventh annual report for year ended June 30, 1940, Part I. C. L. Christensen, Noble Clark, and Niemen Hoveland. Dec. 1940.

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136. The irradiation of milk. K. G. Weckel and H. C. Jackson. Mar. 1939.
137. The making of processed cheese. H. H. Sommer and H. L. Templeton. June 1939.

WYOMING AGRICULTURAL EXPERIMENT STATION, LARAMIE

BULLETINS

231. Poisonous plants and livestock poisoning. O. A. Beath, H. F. Eppson, C. S. Gilbert, and W. B. Bradley. May 1939.
232. Breastbones of turkeys in relation to roosting. M. O. North. May 1939.
233. Phosphorus in Wyoming pasture, hay, and other feeds. O. C. McCreary. June 1939.
234. The cellar wintering of bees. C. H. Gilbert. July 1939.
235. Deep fat frying at high altitudes. E. J. Thiessen. Feb. 1940.
236. Hybrid corn adaptation trials in Wyoming in 1939. W. A. Riedl. Apr. 1940.
237. Roughage feeding of dairy cattle. H. S. Willard. May 1940.
238. Wintering bees in Wyoming. C. H. Gilbert. May 1940.
239. The two-queen hive and commercial honey production. C. H. Gilbert. July 1940.
240. Salinity conditions in the Big Horn River during the years 1938 and 1939. T. J. Dunnwald. July 1940.
241. Livestock poisoning by oat hay and other plants containing nitrate. W. B. Bradley, H. F. Eppson, and O. A. Beath. July 1940.
242. Making white and whole wheat bread with three types of yeast and hard wheat flour. E. J. Thiessen. Sept. 1940.



INDEX OF AUTHORS

- Abell, M. F., N. H. Bul. 326.
 Abrahamsen, M. A., W. Va. Bul. 297.
 Ackerman, Joseph, Ill. Bul. 465, 468.
 Ackerson, C. W., Nebr. Res. Bul. 108, 109, 116, 119, 120.
 Adair, C. R., Ark. Bul. 403.
 Adams, W. R., Vt. Bul. 444.
 Ahlgren, G. H., N. J. Bul. 676.
 Aikin, Ann, Mich. Tech. Bul. 171.
 Albeiter, J. K., Mo. Bul. 421.
 Albrecht, W. A., Mo. Bul. 421.
 Aldrich, W. W., Oreg. Bul. 374.
 Allen, P. W., Tenn. Bul. 172.
 Allinger, H. W., Calif. Bul. 631; Hilgardia, vol. 13, no. 2.
 Allison, J. H., Minn. Bul. 343.
 Allred, C. E., Tenn. Bul. 169.
 Almack, R. B., Mo. Res. Bul. 306, 307.
 Altstatt, G. E., Tex. Bul. 584.
 Amerine, M. A., Calif. Bul. 639.
 Andersen, E. M., N. Y. (Cornell) Bul. 714.
 Anderson, B. M., Kans. Bul. 286.
 Anderson, C. S., Pa. Bul. 374, 385.
 Anderson, E. F., Pa. Bul. 384.
 Anderson, E. O., Conn. (Storrs) Bul. 231, 234.
 Anderson, H. W., Ill. Bul. 469.
 Anderson, K. L., Kans. Bul. 291.
 Anderson, P. J., Conn. (State) Bul. 422, 432, 433.
 Anderson, W. A., N. Y. (Cornell) Bul. 713, 733.
 Anderson, W. S., Miss. Bul. 349.
 Andrews, W. B., Miss. Bul. 342.
 Angelo, Ernest, Minn. Tech. Bul. 135.
 Anthony, J. L., Miss. Bul. 338, 348.
 Arbuckle, W. S., Mo. Bul. 408; Res. Bul. 302, 303, 319, 320, 322, 323.
 Archibald, J. G., Mass. Bul. 357, 362.
 Ark, P. A., Calif. Hilgardia, vol. 12, no. 4.
 Armentrout, W. W., W. Va. Bul. 292.
 Arnold, E. L., N. Y. (Cornell) Bul. 724.
 Arnold, H. A., Tenn. Bul. 171.
 Arnold, J. F., Ariz. Tech. Bul. 80.
 Asbury, S. E., Tex. Bul. 577, 593.
 Ashley, T. E., Miss. Bul. 350.
 Atkins, S. W., Tenn. Bul. 169.
 Aull, G. H., S. C. Bul. 323, 328, 331.
 Babel, F. J., Iowa Res. Bul. 264.
 Baerg, W. J., Ark. Bul. 385.
 Bailey, E. M., Conn. (State) Bul. 425, 426, 430, 436, 437, 441.
 Bailey, J. S., Mass. Bul. 358.
 Baker, G. L., Del. Bul. 216.
 Baker, G. O., Idaho Bul. 230, 233.
 Baker, J. A., Ark. Bul. 384.
 Baker, M. L., Nebr. Bul. 323.
 Bakke, A. L., Iowa Res. Bul. 254, 259.
 Ballinger, R. A., La. Bul. 310, 315, 316.
 Baltzer, A. C., Mich. Spec. Bul. 297.
 Baragar, A. E., Nebr. Res. Bul. 111.
 Barbee, O. E., Wash. Bul. 370, 382.
 Barber, G. W., Conn. (State) Bul. 419.
 Barnes, C. P., Mo. Bul. 421.
 Barnes, E. O., Minn. Tech. Bul. 143.
 Barnett, R. J., Kans. Bul. 290.
 Barnette, R. M., Fla. Bul. 341.
 Barnicoat, C. R., Minn. Tech. Bul. 134.
 Barr, G. W., Ariz. Bul. 167.
 Barre, H. J., Iowa Res. Bul. 271.
 Bartel, A. T., Ariz. Bul. 166.
 Bartholomew, E. T., Calif. Hilgardia, vol. 12, no. 7.
 Bartholomew, R. P., Ark. Bul. 380.
 Bartlett, J. W., N. J. Bul. 667, 675.
 Barton, G. T., Ark. Bul. 397.
 Bartoo, R. A., Pa. Bul. 394.
 Baten, W. D., Mich. Tech. Bul. 165, 171.
 Batson, F. S., Miss. Bul. 340.
 Bausman, R. O., Del. Bul. 224.
 Bayer, L. D., Mo. Bul. 404.
 Beard, F. J., Iowa Res. Bul. 270.
 Beard, R. L., Conn. (State) Bul. 440.
 Beasley, R. P., Mo. Bul. 410.
 Beath, O. A., Wyo. Bul. 231, 241.
 Beaty, H. H., Iowa Bul. P13.
 Bechdel, S. I., Pa. Bul. 395, 396.
 Beckenbach, J. R., Fla. Bul. 333.
 Becnel, I. J., La. Bul. 323.
 Bender, C. B., N. J. Bul. 683.
 Bennett, A. H., Iowa Bul. P9.
 Bennett, J. B., Mo. Bul. 421.
 Bentley, R. C., Iowa Res. Bul. 276.
 Benton, T. H., Iowa Soil Rpt. 79.
 Beresford, Hobart, Idaho Bul. 237.
 Bergeson, E. C., Utah Bul. 288.
 Bessey, E. A., Mich. Spec. Bul. 304.
 Bice, C. M., Hawaii Bul. 81.
 Piester, Alice, Minn. Tech. Bul. 139.
 Bigger, J. H., Ill. Bul. 450, 463.
 Bird, E. W., Iowa Res. Bul. 284.
 Bisson, C. S., Calif. Hilgardia, vol. 13, no. 2.
 Blackmon, G. H., Fla. Bul. 344.
 Blair, A. W., N. J. Bul. 677.
 Blakeslee, L. H., Mich. Spec. Bul. 303.
 Blanch, G. T., Utah Bul. 285.
 Blanford, C. J., N. Y. (Cornell) Bul. 735.
 Blaser, R. E., Fla. Bul. 351; N. J. Bul. 673.
 Blasingame, R. U., Pa. Bul. 375.

- Bledsoe, R. P., Ga. Bul. 207.
 Blickle, R. L., N. H. Tech. Bul. 74.
 Blish, M. J., Nebr. Res. Bul. 108, 109, 116, 119.
 Blizzard, W. L., Okla. Bul. 237.
 Blood, K. D., Okla. Bul. 238.
 Blood, P. T., N. H. Bul. 320, 324.
 Bobb, M. L., Va. Bul. 320.
 Bohn, G. W., Mo. Res. Bul. 311.
 Bolin, Oren, Ill. Bul. 450, 463.
 Bollinger, C. O., N. C. Bul. 326.
 Bonde, Reiner, Maine Bul. 396.
 Bondurant, J. H., Ky. Bul. 405.
 Bonnen, C. A., Tex. Bul. 568.
 Bonnett, O. T., Ill. Bul. 460.
 Borland, A. A., Pa. Bul. 395.
 Botkin, C. W., N. Mex. Bul. 263.
 Bottum, J. C., Ind. Bul. 436, 456.
 Boucher, R. V., Pa. Bul. 381.
 Bouyoucos, G. J., Mich. Tech. Bul. 172.
 Bowers, F. A. I., Hawaii Bul. 84.
 Boyce, E. F., Vt. Bul. 447, 453, 455, 458, 464, 468.
 Boyce, J. H., N. J. Bul. 673.
 Boyd, F. T., Fla. Bul. 351.
 Boyd, W. L., Minn. Bul. 348.
 Boyle, L. E., N. Dak. Bul. 293.
 Bradford, F. C., Mich. Tech. Bul. 163.
 Bradley, W. B., Wyo. Bul. 231, 241.
 Erandly, C. A., Ill. Bul. 470.
 Brandon, J. F., Colo. Bul. 461, 463.
 Brannen, C. O., Ark. Bul. 386.
 Bratzler, J. W., Pa. Bul. 391.
 Bray, C. I., La. Bul. 305.
 Brennan, C. A., Nev. Bul. 150, 151, 154.
 Brentzel, W. E., N. Dak. Bul. 295.
 Brewer, C. A., Jr., La. Bul. 318.
 Brief, B. J., Ohio Bul. 610.
 Brierley, W. G., Minn. Tech. Bul. 135.
 Briggs, F. N., Calif. Bul. 629.
 Briggs, I. A., Ariz. Bul. 166.
 Brigman, H. P., N. C. Bul. 326.
 Britton, Virginia, Vt. Bul. 469.
 Britton, W. E., Conn. (State) Bul. 428.
 Brode, W. R., Ohio Bul. 601.
 Brody, Samuel, Mo. Res. Bul. 295.
 Brooker, M. A., Fla. Bul. 339.
 Brooks, R. M., Calif. Hilgardia, vol. 13, no. 5.
 Brown, A. A., Mass. Bul. 363, 365.
 Brown, A. J., Ky. Bul. 403.
 Brown, E. M., Mo. Res. Bul. 299.
 Brown, G. A., Mich. Spec. Bul. 303.
 Brown, H. B., La. Bul. 306.
 Brown, L. A., Colo. Tech. Bul. 26.
 Brown, L. M., S. Dak. Bul. 328.
 Brown, L. T., Iowa Corn Res. Inst. Cont., vol. 1, no. 3.
 Brownlee, O. H., Mont. Bul. 382.
 Bruce, M. R., Nev. Bul. 151.
 Bruner, D. W., Ky. Bul. 400, 404.
 Bruner, F. H., Mo. Bul. 404.
 Bryant, H. W., Iowa Res. Bul. 283.
 Bryant, L. R., Colo. Bul. 458.
 Bryant, R. L., Va. Bul. 321.
 Buchanan, J. H., Iowa Res. Bul. 279.
 Buchanan, K. S., Ark. Bul. 373.
 Buck, R. K., Iowa Res. Bul. 272, 275, 278.
 Bunce, A. C., Iowa Bul. 381.
 Burd, J. S., Calif. Hilgardia, vol. 12, no. 5.
 Burdette, R. F., Md. Bul. 427, 430, 436.
 Burdick, R. T., Colo. Bul. 453, 460.
 Burke, Edmund, Mont. Bul. 376.
 Burlison, W. L., Ill. Bul. 453, 460, 462.
 Burnham, D. R., N. Mex. Bul. 260.
 Burrier, A. S., Oreg. Bul. 362, 373.
 Burt, A. W., Hawaii Bul. 85.
 Bushnell, L. D., Kans. Bul. 284.
 Butz, E. L., Ind. Bul. 437.
 Byers, G. B., Ky. Bul. 406.
 Byrom, M. H., Tex. Bul. 580.
 Cagle, Le Roy, Va. [Unnumbered Pub.] 1938.
 Caine, A. B., Iowa Bul. P1.
 Cake, E. W., N. Y. (Cornell) Bul. 737.
 Camburn, O. M., Vt. Bul. 446, 459.
 Camp, A. F., Fla. Bul. 335.
 Camp, J. R., Mo. Bul. 421.
 Campbell, L. O., Wash. Bul. 379.
 Campbell, W. G., Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 Cannon, H. J., Vt. Bul. 464, 468.
 Card, D. G., Ky. Bul. 403, 409.
 Carlton, Harry, Tenn. Bul. 168.
 Carlyle, E. C., Tex. Bul. 571, 589.
 Carmichael, B. E., Md. Bul. 428.
 Carnecross, J. W., N. J. Bul. 660, 684.
 Carpenter, G. A., Calif. Bul. 641.
 Carroll, J. C., Ohio Bul. 613.
 Carter, D. G., Ark. Bul. 371, 380.
 Carter, John, Jr., N. Mex. Bul. 260, 265, 270, 271.
 Cartwright, W. B., Ind. Bul. 440.
 Carver, J. S., Wash. Bul. 372, 381, 383, 388.
 Case, H. C. M., Ill. Bul. 467.
 Cathcart, C. S., N. J. Bul. 662, 664, 670, 674, 680, 686.
 Chandler, F. B., Maine Bul. 402.
 Chandler, John, N. H. Bul. 318.
 Chandler, R. F., Jr., N. Y. (Cornell), Mem. 228.
 Chapman, H. D., Calif. Hilgardia, vol. 13, no. 4.
 Chapman, W. H., N. C. Bul. 328.
 Charles, T. B., N. H. Bul. 312.
 Charlton, J. L., Ark. Bul. 398.
 Charpentier, L. J., La. Bul. 323.
 Cheney, H. B., Iowa Bul. P8.
 Christensen, C. L., Wis. Bul. 450.
 Christensen, L. M., Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 Claassen, P. W., N. Y. (Cornell) Mem. 232.
 Clapp, A. L., Kans. Bul. 288.
 Clapp, L. E., Iowa Bul. P11.
 Clark, C. M., Ala. Bul. 247; Ky. Bul. 409.
 Clark, Noble, Wis. Bul. 443, 446, 449, 450.
 Clark, W. C., S. Dak. Bul. 345.
 Clawson, Marion, Mont. Bul. 377.
 Claydon, T. J., Iowa Res. Bul. 267.
 Clayton, M. M., Maine Bul. 401.
 Cline, D. C., Mich. Spec. Bul. 301.
 Cloaninger, B. D., S. C. Bul. 324, 330.
 Clyde, A. W., Pa. Bul. 396.
 Coates, W. H., N. H. Bul. 324.
 Cochran, F. D., La. Bul. 312.

- Cochran, H. L., Ga. Bul. 206.
 Cochran, W. G., Iowa Res. Bul. 281.
 Cockerham, K. L., La. Bul. 323.
 Cockerill, P. W., N. Mex. Bul. 261, 267.
 Coddington, J. W., Md. Bul. 424, 431.
 Colby, W. G., Mass. Bul. 356.
 Cole, H. H., Calif. Bul. 645.
 Cole, R. C., Calif. Hilgardia, vol. 12, no. 6.
 Cole, W. R., Mass. Bul. 360.
 Coleman, O. T., Mo. Bul. 405.
 Coleman, Russell, Miss. Bul. 336.
 Coleman, W. J., Okla. Bul. 241.
 Coles, J. V., Mo. Res. Bul. 300, 301, 318.
 Collins, D. L., N. Y. (Cornell) Bul. 740.
 Collison, R. C., N. Y. State Bul. 691.
 Colvard, D. W., N. C. Bul. 328.
 Compere, Harold, Calif. Hilgardia, vol. 13, no. 7.
 Congdon, G. S., Mass. Bul. 374.
 Connors, C. H., N. J. Bul. 666.
 Conrey, G. W., Mo. Bul. 421.
 Conybeare, A. B., N. J. [Unnumbered Pub.] 1940.
 Cook, F. W., N. C. Tech. Bul. 62.
 Cook, J. W., Wash. Bul. 372, 381, 383, 388.
 Cooley, R. J., Mo. Bul. 420; Res. Bul. 323.
 Cooney, W. T., Oreg. Bul. 386.
 Cooper, J. R., Ark. Bul. 378, 382.
 Coote, R. K., Mo. Bul. 421.
 Copper, R. R., Ill. Bul. 463.
 Corbett, W. J., Ill. Bul. 452.
 Cory, V. L., Tex. Bul. 586.
 Couch, J. R., Tex. Bul. 569, 588.
 Cowan, E. W., Mo. Bul. 403, 417.
 Cowden, T. K., Ind. Bul. 443, 446.
 Cowsert, W. C., Miss. Bul. 343; Tech. Bul. 25; Mo. Res. Bul. 317.
 Cox, G. M., Iowa Res. Bul. 257, 281.
 Cox, R. F., Kans. Bul. 287.
 Cox, R. W., Minn. Bul. 344.
 Craft, W. A., Okla. Tech. Bul. 7.
 Crafts, A. S., Calif. Hilgardia, vol. 12, no. 3.
 Cralley, E. M., Ark. Bul. 383.
 Crandall, F. K., R. I. Bul. 272.
 Crawford, R. F., N. Mex. Bul. 264.
 Crawford, W. S., S. C. Bul. 326.
 Crickman, C. W., Minn. Tech. Bul. 138.
 Cromer, C. O., Pa. Bul. 396.
 Cron, L. E., Md. Bul. 430.
 Culbertson, C. C., Iowa Bul. 380.
 Culbertson, J. O., Minn. Bul. 349.
 Cullison, A. E., Miss. Bul. 347.
 Cummings, M. B., Vt. Bul. 467.
 Cunningham, A. P., Va. [Unnumbered Pub.] 1938.
 Cunningham, H. S., N. Y. State Bul. 685, 694.
 Cunningham, R. N., Minn. Bul. 343.
 Curry, E. A., Miss. Bul. 327.
 Curtis, J. J., Colo. Bul. 461, 463.
 Curtiss, W. M., N. Y. (Cornell) Bul. 744.
 Cushing, R. L., Nebr. Bul. 329.
- Darago, V. L., N. J. Bul. 682.
 Darlington, H. T., Mich. Spec. Bul. 304.
 Darrow, G. M., N. C. Bul. 320, 327; Tech. Bul. 65.
 Davey, W. B., Ariz. Tech. Bul. 81.
 Davidson, J. B., Iowa Bul. 382, P17.
 Davis, F. L., La. Bul. 318.
 Davis, G. K., Mich. Tech. Bul. 170.
 Davis, H. A., N. H. Bul. 315, 317, 327, 329.
 Davis, L. E., Vt. Bul. 447, 453, 455.
 Davis, W. R., Tex. Bul. 590.
 Dawson, W. M., Ill. Bul. 451.
 Dean, H. K., Oreg. Bul. 380.
 Dearstyne, R. S., N. C., Bul. 326.
 Deay, H. O., Ind. Bul. 451.
 Decker, C. W., Mo. Res. Bul. 302, 322.
 Deen, O. T., La. Bul. 323.
 Delaplane, J. P., R. I. Bul. 273.
 DeLoach, D. B., Oreg. Bul. 375, 377, 378.
 DeLong, H. H., S. Dak. Bul. 333.
 Delwiche, E. J., Wis. Bul. 444.
 Derr, D. E., Md. Bul. 424.
 Devault, S. H., Md. Bul. 426, 427, 429, 430, 431, 434, 436.
 Dickey, R. D., Fla. Bul. 343, 344, 353.
 Dickins, Dorothy, Miss. Bul. 346.
 Dickson, R. E., Tex. Bul. 587.
 Dietrich, Henry, N. Y. (Cornell) Bul. 740.
 Dimock, W. W., Ky. Bul. 402.
 Doan, F. J., Pa. Bul. 380.
 Dodson, L. S., Md. Bul. 437.
 Donahue, R. L., N. Y. (Cornell) Mem. 229.
 Donaldson, R. W., Mass. Bul. 356.
 Donley, J. E., Mass. Bul. 363, 365, 366.
 Dorman, Clarence, Miss. Bul. 338.
 Dorsey, M. J., Ill. Bul. 458, 473.
 Dougherty, L. A., N. H. Bul. 321.
 Dow, G. F., Maine Bul. 395, 399.
 Dowell, A. A., Minn. Bul. 342, 345.
 Dreesen, W. H., Oreg. Bul. 371, 384.
 Drew, R. J., Mo. Res. Bul. 303.
 Dubois, C. W., N. Y. State Bul. 690.
 Dugas, A. L., La. Bul. 323.
 Duley, F. L., Nebr. Res. Bul. 112.
 Dummeier, E. F., Wash. Bul. 371.
 Dungan, G. H., Ill., Bul. 450, 460, 463.
 Dunklee, D. E., Vt. Bul. 445, 460.
 Dunnewald, T. J., Wyo. Bul. 240.
 Dunning, R. G., Vt. Bul. 467.
 Durant, A. J., Mo. Bul. 411; Res. Bul. 304.
 Durgin, R. C., N. H. Bul. 312.
 Durrell, L. W., Colo. Bul. 455.
 Dustman, R. B., W. Va. Bul. 294.
 Dwyer, F. M., N. Y. (Cornell) Mem. 226.
- Eastman, M. G., N. H. Bul. 319.
 Ebeling, Walter, Calif. Hilgardia, vol. 12, no. 11.
 Eckert, J. E., Calif. Bul. 631.
 Eckert, P. S., Mont. Bul. 372.
 Eckhardt, R. C., Iowa Res. Bul. 281.
 Eddy, C. O., La. Bul. 323.
 Edgecombe, S. W., Iowa Bul. P7, P10.
 Edwards, P. R., Ky. Bul. 400, 404.
 Efferson, J. N., La. Bul. 314, 317, 321, 324, 325; N. Y. (Cornell) Bul. 715.
 Eggert, R. J., Minn. Bul. 342, 345.

- Eheart, J. F., Va. Tech. Bul. 65.
 Eichmann, R. D., Wash. Bul. 389.
 Eisenmenger, W. S., Mass. Bul. 374.
 Eke, P. A., Idaho Bul. 232.
 Elder, Cecil, Mo. Bul. 412.
 Eliason, E. J., N. Y. State Tech. Bul. 255.
 Ellenberger, H. B., Vt. Bul. 459.
 Ellett, W. B., Va. Tech. Bul. 65.
 Ellisor, L. O., La. Bul. 323.
 Elrod, J. C., Ga. Bul. 202.
 Ely, Fordyce, Ky. Bul. 402.
 Emsweller, S. L., Calif. Bul. 628.
 Engene, S. A., Minn. Bul. 347, and suppl.
 Englehorn, A. J., Iowa Res. Bul. 252.
 Engler, Kyle, Ark. Bul. 371.
 English, L. L., Ala. Bul. 248.
 Enslinger, Douglas, Md. Bul. 437.
 Enzie, J. V., N. Mex. Bul. 266.
 Enzie, W. D., N. Y. State Bul. 686.
 Eppson, H. F., Wyo. Bul. 231, 241.
 Erickson, Arval, Iowa Res. Bul. 270.
 Errington, P. L., Iowa Res. Bul. 277.
 Esau, Katherine, Calif. Hilgardia, vol. 13, no. 5.
 Esplin, A. C., Utah Bul. 292.
 Esselen, W. B., Jr., Mass. Bul. 374.
 Ettesvold, W. L., N. Dak. Bul. 294.
 Evans, M. W., Ohio Bul. 603.
 Evans, R. J., Utah Bul. 287.
 Ewalt, H. P., Oreg. Bul. 366.
 Eyer, J. R., N. Mex. Bul. 266.
 Fabricius, N. E., Iowa Res. Bul. 268, 284.
 Falconer, J. I., Ohio Bul. 604.
 Favre, C. E., Idaho Bul. 228.
 Fawcett, K. I., Ind. Bul. 438, 439, 444, 455.
 Fellers, C. R., Mass. Bul. 374.
 Fenske, L. J., Minn. Bul. 345.
 Fenton, F. A., Okla. Bul. 245.
 Ferrier, W. T., S. C. Bul. 327.
 Ficht, G. A., Ind. Bul. 434.
 Fife, L. C., P. R. Bul. 39.
 Fifield, W. M., Fla. Bul. 352.
 Finch, A. H., Ariz. Bul. 162.
 Fisher, C. D., Calif. Bul. 636.
 Fisher, C. E., Tex. Bul. 587.
 Fisher, L. W., Mich. Tech. Bul. 166.
 Fiske, J. G., N. J. Bul. 672.
 Fitch, C. P., Minn. Bul. 348.
 Fleming, C. E., Nev. Bul. 150, 151, 154.
 Fletcher, J. L., La. Bul. 304.
 Fletcher, S. W., Pa. Bul. 399.
 Flora, C. C., Pa. Bul. 380.
 Floyd, E. H., La. Bul. 323.
 Folger, A. H., Calif. Bul. 635.
 Forbes, E. B., Pa. Bul. 371, 391.
 Fore, J. M., Ind. Bul. 447.
 Fore, R. E., Oreg. Bul. 364.
 Foster, E. O., Ariz. Bul. 164, 165, 168, 169.
 Foster, J. E., N. C. Tech. Bul. 60.
 Frandsen, J. H., Mass. Bul. 374.
 Franklin, H. J., Mass. Bul. 358, 371.
 Franzke, C. J., S. Dak. Tech. Bul. 1.
 Fraps, G. S., Tex. Bul. 571 572, 577, 579, 581, 582, 583, 586, 589, 593, 595.
 Frayer, J. M., Vt. Bul. 404.
 Frazier, W. A., Ariz. Tech. Bul. 85; Md. Bul. 425.
 Frear, D. E. H., Pa. Bul. 400.
 Fredrickson, C. D., Utah Bul. 288.
 Freeman, J. F., Ky. Bul. 397.
 Freeman, V. A., Mich. Tech. Bul. 170.
 French, C. E., Pa. Bul. 391.
 Friend, R. B., Conn. (State) Bul. 434.
 Frolík, A. L., Nebr. Res. Bul. 117.
 Frost, O. M., Ohio Bul. 602, 612.
 Fudge, B. R., Fla. Bul. 331, 335.
 Fudge, J. F., Tex. Bul. 579, 581, 582, 589, 595.
 Fuhrman, W. U., Utah Bul. 286, 289.
 Fuller, F. D., Tex. Bul. 578, 594.
 Fuller, J. E., Mass. Bul. 373, 374.
 Fulmer, H. L., S. C. Bul. 320, 325.
 Funk, E. M., Mo. Bul. 414.
 Gabriel, H. S., Del. Bul. 218.
 Gaddum, L. W., Fla. Bul. 341.
 Gaessler, W. G., Iowa Res. Bul. 254.
 Gaines, R. C., La. Bul. 323.
 Gall, O. E., Fla. Bul. 341.
 Gardner, K. E., N. Y. (Cornell) Bul. 722.
 Garland, Hereford, Ark. Bul. 404.
 Garman, Philip, Conn. (State) Bul. 431.
 Garrett, O. F., Ill. Bul. 457; N. J. Bul. 671, 675.
 Garrigus, W. P., Ill. Bul. 454.
 Garver, H. L., Wash. Pop. Bul. 157.
 Gates, F. C., Kans. [Unnumbered Publication] 1940.
 Gauger, H. C., N. C. Tech. Bul. 62.
 Gaylord, F. C., Ind. Bul. 438, 444, 455.
 Gearreald, T. N., N. Y. (Cornell) Bul. 721.
 Geddes, J. A., Utah Bul. 288.
 Genaux, C. M., Iowa Res. Bul. 269.
 Gessner, A. A., N. Y. (Cornell) Bul. 736.
 Gibson, W. L., Jr., Va. Bul. 327; Tech. Bul. 66.
 Gieseke, L. F., Mont. Bul. 374.
 Gilbert, B. E., R. I. Bul. 275.
 Gilbert, C. H., Wyo. Bul. 234, 238, 239.
 Gilbert, C. S., Wyo. Bul. 231.
 Gilbertson, G. I., S. Dak. Bul. 340.
 Gildow, E. M., Idaho Bul. 235.
 Gile, B. M., La. Bul. 322.
 Gingrich, N. S., Mo. Res. Bul. 297.
 Glickstein, Myer, Mass. Bul. 374.
 Glover, L. C., N. H. Tech. Bul. 74.
 Gloyer, W. O., N. Y. State Bul. 689.
 Goettsch, Marianne, Conn. (Storrs) Bul. 229.
 Goldfaden, M. F., Mass. Bul. 374.
 Goodrum, P. D., Tex. Bul. 591.
 Goodsell, W. D., Iowa Res. Bul. 258, 272.
 Goodwin, M. W., Del. Bul. 216, 223.
 Gordon, Aaron, Calif. Bul. 627.
 Gore, U. R., Ga. Bul. 204.
 Gorton, W. W., Oreg. Bul. 362, 373, 381.
 Gould, G. E., Ind. Bul. 451.
 Gould, I. A., Jr., Mich. Tech. Bul. 164.
 Graham, L. T., La. Bul. 323.
 Graham, Robert, Ill. Bul. 470.
 Graham, S. A., Minn. Tech. Bul. 142.
 Grantham, G. M., Mich. Spec. Bul. 299.
 Greaves, R. E., N. C. Tech. Bul. 62.

- Green, F. M., Colo. Bul. 458.
 Greenlaw, J. P., N. Dak. Bul. 293.
 Gregory, C. L., Mo. Res. Bul. 205.
 Gregory, Clifford, Iowa Corn Res. Inst. Cont.,
 vol. 1, no. 2.
 Griffee, Fred, Maine Bul. 397, 400.
 Griffin, R. A., Iowa Res. Bul. 252.
 Griffith, M. E., Ohio Bul. 601.
 Grigsby, S. E., La. Bul. 319.
 Grizzard, A. L., Va. Bul. 328.
 Gross, E. E., Miss. Bul. 326.
 Gross, I. H., Mich. Tech. Bul. 171.
 Grove, L. C., Iowa Bul. P12; Res. Bul. 253.
 Grundmann, A. W., Kans. Tech. Bul. 50.
 Guba, E. F., Mass. Bul. 361.
 Guilbert, H. R., Calif. Bul. 645.
 Guin, Marvin, Miss. Bul. 332, 352.
 Gunness, C. I., Mass. Bul. 360, 367.
 Gustafson, A. F., N. Y. (Cornell) Bul. 746.
 Guthrie, E. S., N. Y. (Cornell) Bul. 739.
 Haag, H. M., Mo. Bul. 415; Res. Bul. 312.
 Haasis, F. A., N. Y. (Cornell) Mem. 224.
 Haber, E. S., Iowa Bul. P6, P15.
 Hackleman, J. C., Ill. Bul. 462.
 Hadro, G. J., Mass. Bul. 374.
 Haggerty, J. J., Mo. Bul. 421.
 Haigh, L. D., Mo. Bul. 403, 417.
 Haley, W. E., La. Bul. 323.
 Hall, O. J., Ark. Bul. 370, 395.
 Halverson, J. O., N. C. Tech. Bul. 61, 63.
 Ham, W. E., Nebr. Res. Bul. 120.
 Hamblin, I. E., Miss. Bul. 353.
 Hamerstrom, F. N., Jr., Iowa Res. Bul. 277.
 Hamerstrom, Frances, Iowa Res. Bul. 277.
 Hamilton, A. B., Md. Bul. 432, 436.
 Hamilton, Eugene, Iowa Bul. P5.
 Hamilton, H. G., Fla. Bul. 339.
 Hammer, B. W., Iowa Res. Bul. 256, 263,
 264, 267, 268, 283.
 Hangas, Arno, N. H. Bul. 322.
 Hankinson, D. J., Conn (Storrs) Bul. 234.
 Hanmer, H. R., Conn (State) Bul. 433.
 Hanna, G. C., Calif. Bul. 633.
 Hannah, H. W., Ill. Bul. 465.
 Hansen, Elmer, Oreg. Bul. 385.
 Hansen, N. E., S. Dak. Bul. 339.
 Hardin, C. M., Ind. Bul. 446.
 Hardy, E. L., N. Mex. Bul. 269.
 Harlan, J. D., N. Y. State Bul. 687.
 Harman, S. W., N. Y. State Bul. 692.
 Harper, F. A., N. Y. (Cornell) Mem. 231.
 Harrelson, R. T., Jr., Ark. Bul. 373.
 Harriman, L. A., Iowa Res. Bul. 53.
 Harrington, F. M., Mont. Bul. 369, 378.
 Hart, G. H., Calif. Bul. 645.
 Hartman, Henry, Oreg. Bul. 385.
 Hartman, J. D., N. Y. (Cornell) Bul. 716.
 Hartman, R. P., N. J. Bul. 675.
 Haseman, Leonard, Mo. Bul. 418.
 Hastings, E. B., Mont. Bul. 370.
 Hausman, L. A., N. J. Bul. 678.
 Hawthorn, L. R., Tex. Bul. 576.
 Hay, D. G., N. Dak. Bul. 293.
 Hayes, H. K., Minn. Tech. Bul. 137.
 Hayes, F. A., Mass. Bul. 359, 364, 377.
 Hays, J. R., Ind. Bul. 450.
 Headley, F. B., Nev. Bul. 153.
 Heald, F. D., Wash. Pop. Bul. 158.
 Hedges, T. R., Okla. Bul. 238.
 Heiman, Victor, Wash. Bul. 383.
 Heinze, P. H., Mo. Res. Bul. 314.
 Heisig, C. P., Wash. Bul. 374.
 Heit, C. E., N. Y. State Tech. Bul. 255.
 Helgeson, E. A., N. Dak. Bul. 292.
 Heller, V. G., Okla. Bul. 243.
 Henderson, J. R., Fla. Bul. 334.
 Henderson, P. A., N. Y. (Cornell) Bul. 728.
 Hendricks, J. W., N. C. Bul. 328.
 Hendrickson, G. O., Iowa Bul. P3.
 Hendrix, W. E., Ga. Bul. 203.
 Henke, L. A., Hawaii Bul. 85.
 Hienning, G. F., Ohio Bul. 606.
 Henning, W. L., Pa. Bul. 397.
 Henson, E. R., Iowa Res. Bul. 251.
 Hepler, J. R., N. H. Tech. Bul. 73.
 Herman, H. A., Mo. Bul. 407; Res. Bul. 317.
 Herreid, E. O., Vt. Bul. 437.
 Herzer, F. H., Miss. Tech. Bul. 25.
 Hess, A. D., N. Y. State Bul. 688.
 Heuser, G. F., N. Y. (Cornell) Bul. 725.
 Hewitt, W. B., Calif. Hilgardia, vol. 12, no.
 4; vol. 13, no. 5.
 Hibbard, P. L., Calif. Hilgardia, vol. 13,
 no. 1.
 Hicks, E. A., Iowa Bul. P3.
 Hicock, H. W., Conn. (State) Bul. 427.
 Hienton, T. E., Ind. Bul. 439, 447.
 Hieser, Lucile, Mo. Res. Bul. 318.
 Hilgeman, R. H., Ariz. Bul. 162.
 Hillman, V. R., Kans. Bul. 286.
 Hills, J. L., Vt. Bul. 452, 463.
 Hixon, R. M., Iowa Corn Res. Inst. Cont.,
 vol. 1, no. 3.
 Hobgood, C. G., La. Bul. 318.
 Hochmuth, H. R., Oreg. Bul. 381.
 Hockley, H. A., Okla. Bul. 241.
 Hodgson, R. E., Wash. Bul. 386.
 Hodson, Adrian, N. Y. (Cornell) Bul. 722.
 Hoffer, C. R., Mich. Spec. Bul. 298.
 Hoffsommer, Harold, La. Bul. 320.
 Hogan, A. G., Mo. Res. Bul. 321.
 Holben, F. J., Pa. Bul. 370.
 Holcomb, E. J., S. C. Bul. 328.
 Holdaway, C. W., Va. Bul. 326; Tech. Bul.
 65.
 Holland, E. B., Mass. Bul. 374.
 Holland, R. F., N. Y. State Tech. Bul. 254.
 Hollands, H. F., Wash. Bul. 377, 393.
 Hollembeak, H. D., Kans. Bul. 288.
 Holmes, E. G., Vt. Bul. 449.
 Honeywell, E. R., Ind. Bul. 444.
 Hoover, C. D., Miss. Bul. 348.
 Hopkins, J. A., Iowa Res. Bul. 272, 275, 278.
 Horlacher, W. R., Ark. Bul. 405.
 Horsfall, W. R., S. Dak. Bul. 340.
 Hosaka, E. Y., Hawaii Bul. 82.
 Hosking, F. J., Iowa Corn Res. Inst. Cont.,
 vol. 1, no. 2.
 Hoskins, W. M., Calif. Bul. 644; Hilgardia,
 vol. 13, no. 6.
 Hostetler, E. H., N. C. Tech. Bul. 60, 61, 63.
 Houchin, O. B., Mo. Res. Bul. 296.
 Hough, W. S., Va. Bul. 322.

- Hoveland, Niemen, Wis. Bul. 443, 446, 449, 450.
- Howe, Harold, Kans. Bul. 283.
- Howe, O. W., Minn. Bul. 350.
- Huckett, H. C., N. Y. State Bul. 695.
- Huddleson, I. F., Mich. Tech. Bul. 168.
- Hudelson, R. R., Mo. Bul. 421.
- Hudson, G. D., Mo. Bul. 421.
- Huelsens, W. A., Ill. Bul. 461, 466.
- Huff, A. J., Miss. Bul. 352.
- Huffman, R. E., Md. Bul. 431.
- Hughes, E. M., N. Y. (Cornell) Bul. 741.
- Hughes, J. S., Kans. Tech. Bul. 46, 51.
- Hughes, R. C., Okla. Tech. Bul. 8.
- Hulburt, W. C., Ark. Bul. 380.
- Hull, F. E., Ky. Bul. 402.
- Hume, A. N., S. Dak. Bul. 344; Tech. Bul. 1.
- Humphrey, E. N., Idaho Bul. 234.
- Humphrey, L. M., Ark. Bul. 387.
- Hunt, W. E., Md. Bul. 428.
- Hunter, Byron, N. Mex. Bul. 261, 267.
- Hunter, H. A., Md. Bul. 425.
- Hunter, Harry, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
- Hurd, E. B., Wash. Bul. 377, 393.
- Hutcheson, T. B., Va. Bul. 328.
- Hyre, R. A., N. Y. (Cornell) Mem. 222.
- Iddings, E. J., Idaho Bul. 229, 236.
- Ingols, R. S., N. J. Bul. 669.
- Ingram, J. W., La. Bul. 323.
- Irwin, M. H., Wis. Bul. 447.
- Isely, Dwight, Ark. Bul. 382.
- Iverson, V. E., Minn. Tech. Bul. 135; Mont. Bul. 386.
- Jaap, R. G., Okla. Bul. 236.
- Jackson, H. C., Wis. Res. Bul. 136.
- Jacob, M., Tenn. Bul. 172.
- Jacobsen, D. H., S. Dak. Bul. 331.
- Jacobson, H. G. M., Conn. (State) Bul. 439.
- Jacquot, A. C., Wash. Pop. Bul. 156.
- Janes, B. E., Calif. Hilgardia, vol. 12, no. 7.
- Jebe, E. H., Iowa Res. Bul. 273.
- Jefferson, R. N., Va. Bul. 320.
- Jeffrey, F. P., N. J. Bul. 682.
- Jeffrey, R. N., Ky. Bul. 407.
- Jeffries, C. D., Pa. Bul. 370.
- Jehle, R. A., Md. Bul. 433.
- Jenkins, M. T., Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
- Jessness, O. B., Minn. Bul. 346.
- Jewett, H. H., Ky. Bul. 391, 392, 398.
- Joffe, J. S., N. J. [Unnumbered Pub.] 1940.
- Jehansen, Sigurd, N. Mex. Bul. 273.
- John, M. E., Pa. Bul. 388.
- Johnson, Burt, Ark. Bul. 376, 381.
- Johnson, E. C., Wash. Bul. 384, 394.
- Johnson, E. M., Ky. Bul. 399.
- Johnson, Eunice M., Mass. Bul. 368.
- Johnson, E. P., Va. Bul. 323.
- Johnson, Gestur, Colo. Tech. Bul. 27.
- Johnson, James, Wis. Bul. 445, 448.
- Johnson, N. W., Mont. Bul. 367, 377.
- Johnson, O. R., Mo. Res. Bul. 308.
- Johnson, S. R., Mo. Res. Bul. 321; Pa. Bul. 371.
- Johnson, T. D., Md. Bul. 432; W. Va. Bul. 292.
- Johnston, C. O., Kans. Tech. Bul. 49.
- Joley, Lloyd, Mich. Tech. Bul. 163.
- Jones, C. H., Vt. Bul. 446, 459.
- Jones, D. F., Conn. (State) Bul. 435.
- Jones, D. L., Tex. Bul. 580.
- Jones, E. T., Kans. Tech. Bul. 49.
- Jones, G. D., Mo. Bul. 406.
- Jones, H. A., Calif. Bul. 628, 633; Hilgardia, vol. 12, no. 9.
- Jones, I. R., Oreg. Bul. 366.
- Jones, J. H., Tex. Bul. 570.
- Jones, J. S., Oreg. Bul. 365.
- Jones, L. K., Wash. Bul. 390.
- Jones, T. N., Miss. Bul. 353.
- Joslyn, M. A., Calif. Bul. 639.
- Joss, Alexander, N. Y. (Cornell) Bul. 720.
- Jugenheimer, R. W., Kans. Bul. 288.
- Jungherr, Erwin, Conn. (Storrs) Bul. 229.
- Junkin, Elsie, N. Y. (Cornell) Mem. 226.
- Kadow, K. J., Ill. Bul. 469.
- Kapp, L. C., Ark. Bul. 380.
- Kaston, B. J., Conn. (State) Bul. 420.
- Keith, T. B., Pa. Bul. 397, 401.
- Kelbert, D. G. A., Fla. Bul. 345.
- Kelley, J. L., Mass. Bul. 358.
- Kellogg, C. E., Mo. Bul. 421.
- Kelly, H. C., Mont. Bul. 386.
- Kelly, L. L., Nebr. Res. Bul. 112.
- Kelso, M. M., Mo. Bul. 421.
- Kempster, H. L., Mo. Bul. 414.
- Kendall, J. C., N. H. Bul. 313.
- Kendrick, J. B., Calif. Bul. 629.
- Kent, G. C., Iowa Res. Bul. 274.
- Kepner, R. A., Calif. Bul. 643.
- Kertesz, Z. I., N. Y. State Tech. Bul. 252.
- Kiesselbach, T. A., Nebr. Bul. 322, 326, 328, 329; Res. Bul. 110.
- Kik, M. C., Ark. Bul. 373.
- Killough, D. T., Tex. Bul. 580.
- Kimbrough, W. D., La. Bul. 311.
- Kincaid, R. R., Fla. Bul. 330, 342.
- King, A. J., Iowa Res. Bul. 273.
- Kinney, E. J., Ky. Bul. 397.
- Kiplinger, D. C., Ohio Bul. 616.
- Kitselman, C. H., Kans. Tech. Bul. 50.
- Klemme, A. W., Mo. Bul. 405.
- Kndel, H. C., Pa. Bul. 381.
- Knight, H. G., Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
- Knott, J. C., Wash. Bul. 386.
- Knott, J. E., N. Y. (Cornell) Bul. 714; Mem. 218.
- Knox, J. H., N. Mex. Bul. 262.
- Koehler, Benjamin, Ill. Bul. 450, 460, 463.
- Kohlmeyer, J. B., Ind. Bul. 453.
- Koller, E. F., Minn. Bul. 346.
- Kraenzel, C. F., Mont. Bul. 371.
- Krusekopf, H. H., Mo. Bul. 421.
- Kucinski, K. J., Mass. Bul. 374.
- Kuenzel, J. G., Iowa Res. Bul. 269.
- Kuhlman, G. W., Oreg. Bul. 364.
- Kulp, M. R., Idaho Bul. 233.
- Kumlien, W. F., S. Dak. Bul. 327, 334, 338.
- Kuntz, W. A., Fla. Bul. 349.
- Kuschke, B. M., R. I. Bul. 276.

- Kuykendall, Roy, Miss. Bul. 333, 334, 345, 348.
- LaCroix, D. S., Conn. (State) Bul. 422, 433.
- LaMont, T. E., N. Y. (Cornell) Bul. 712.
- Lampman, C. E., Idaho Bul. 235.
- Landauer, Walter, Conn. (Storrs) Bul. 232, 233.
- Landerman, H. L., Calif. Bul. 641.
- Landis, P. H., Wash. Bul. 378.
- Landon, R. H., Minn. Tech. Bul. 135.
- Lang, A. L., Ill. Bul. 450, 463.
- Langley, B. C., Tex. Bul. 587.
- Langley, M. N., Colo. Tech. Bul. 26.
- Lanham, W. B., N. C. Bul. 323.
- Lantz, E. M., N. Mex. Bul. 268.
- Larmour, R. K., Kans. Bul. 289.
- Larson, C. A., Wash. Bul. 376.
- Larson, O. F., Colo. Bul. 457.
- Laurie, Alex., Ohio Bul. 611, 616.
- Lay, D. W., Tex. Bul. 592.
- Lea, G. F., R. I. Bul. 271.
- Leach, L. D., Calif. Hilgardia, vol. 12, no. 9.
- Leahy, J. F., Ga. Bul. 205.
- Lease, E. J., S. C. Bul. 329.
- Leavenworth, C. S., Conn. (State) Bul. 424, 442.
- Lee, A. T. M., N. J. Bul. 665.
- Leeder, J. G., Vt. Bul. 457.
- Legault, A. R., Colo. Bul. 452.
- Leichsenring, J. M., Minn. Tech. Bul. 139.
- Leighly, John, Calif. Hilgardia, vol. 13, no. 3.
- Leonard, O. A., Miss. Bul. 353.
- Leonard, W. H., Colo. Bul. 463.
- Lesley, J. W., Calif. Bul. 632.
- Lewis, A. A., Mo. Res. Bul. 310.
- Lewis, A. B., Mo. Bul. 421.
- Lewis, M. R., Oreg. Bul. 374.
- Liebig, G. F., Jr., Calif. Hilgardia, vol. 13, no. 4.
- Lin, C. K., N. Y. (Cornell) Mem. 233.
- Lindstrom, D. E., Ill. Bul. 451.
- Lindstrom, H. V., Minn. Tech. Bul. 136.
- Link, C. B., Pa. Bul. 386.
- Linn, M. B., N. Y. (Cornell) Bul. 742.
- Lipman, J. G., N. J. [Unnumbered Pub.] 1940.
- List, G. M., Colo. Bul. 454.
- Lively, C. E., Mo. Res. Bul. 305, 306, 307.
- Livesay, E. A., W. Va. Bul. 296.
- Lloyd, J. W., Ill. Bul. 453, 455, 464, 471.
- Lloyd, O. G., Ind. Bul. 437.
- Loconti, J. D., N. Y. State Tech. Bul. 252.
- Long, H. F., Iowa Res. Bul. 263.
- Long, J. D., Calif. Bul. 636.
- Longr  e, Karla, N. Y. (Cornell) Mem. 223.
- Loomis, W. E., Iowa Res. Bul. 254.
- Loosli, J. K., N. Y. (Cornell) Mem. 227.
- Lorenz, R. W., Minn. Tech. Bul. 141.
- Loring, A. S., Minn. Misc. Rpt. 1.
- Lowe, Belle, Iowa Res. Bul. 255, 279.
- Luebke, B. H., Tenn. Bul. 169.
- Lush, J. L., Iowa Bul. 380.
- Lush, R. H., La. Bul. 304.
- Lutman, A. S., Vt. Bul. 454, 465.
- Lutz, J. F., N. C. Tech. Bul. 66.
- Lynch, S. J., Fla. Bul. 350.
- Lyness, W. E., Nebr. Bul. 322; Res. Bul. 110.
- Lyons, Malcolm, Ark. Bul. 374.
- McBee, J. A., Tenn. Bul. 172.
- McBride, C. G., Ohio Bul. 609, 614.
- McCampbell, C. W., Kans. Tech. Bul. 51.
- McClelland, C. K., Ark. Bul. 389, 390, 393, 402.
- McCollum, J. P., Ill. Bul. 464.
- McComas, E. W., W. Va. Bul. 295.
- McCord, J. E., Pa. Bul. 379.
- MacCreary, Donald, Del. Bul. 225, 226.
- MacCreary, O. C., Wyo. Bul. 233.
- McCrorry, S. A., Mo. Res. Bul. 316.
- McCue, C. A., Del. Bul. 222.
- MacDaniels, L. H., N. Y. (Cornell) Mem. 230.
- McDonald, C. W., Iowa Bul. P4.
- McDougle, H. C., Mo. Bul. 411; Res. Bul. 304.
- McGeorge, W. T., Ariz. Bul. 164, 165, 168, 169; Te h. Bul. 82, 85.
- MacGillivray, J. H., Calif. Hilgardia, vol. 13, no. 2.
- McGinnies, W. G., Ariz. Tech. Bul. 80.
- McGinty, R. A., S. C. Bul. 321.
- Mack, W. B., Pa. Bul. 378, 393.
- McKenzie, M. A., Mass. Bul. 368.
- McKibben, E. G., Iowa Bul. 382.
- MacLeod, Alan, N. H. Bul. 318, 325.
- MacLeod, G. F., Calif. Bul. 644.
- McNamara, R. L., S. Dak. Bul. 332.
- McNeely, J. G., Ark. Bul. 384, 397.
- McPherson, W. K., Iowa Corn Res. Inst. Cont., vol. 1, no. 3.
- McPherson, W. W., La. Bul. 314.
- McReynolds, D. K., Mo. Res. Bul. 297.
- McWhorter, F. P., Oreg. Bul. 382.
- Madden, Faith, Iowa Res. Bul. 282.
- Madsen, L. L., Mich. Tech. Bul. 170.
- Madsen, M. A., Utah Bul. 292.
- Magee, A. C., Tex. Bul. 568.
- Magill, W. W., Ky. Bul. 393.
- Mahoney, C. H., Md. Bul. 425.
- Mallmann, W. L., Mich. Tech. Bul. 174.
- Malone, C. C., Iowa Res. Bul. 275, 278.
- Maney, T. J., Iowa Bul. P7.
- Mangelsdorf, P. C., Tex. Bul. 574.
- Manson, P. W., Minn. Tech. Bul. 144.
- Marble, D. R., Pa. Bul. 377.
- Marr, J. C., Idaho Bul. 233.
- Martin, A. L., Tex. Bul. 584.
- Martin, W. P., Ariz. Tech. Bul. 83.
- Massey, L. M., Calif. Hilgardia, vol. 12, no. 10; N. Y. (Cornell) Mem. 227.
- Mathews, F. P., Tex. Bul. 585.
- Matzen, E. H., N. Y. (Cornell) Bul. 744.
- Maughan, O. H., Mont. Bul. 372.
- Maxon, M. A., Iowa Res. Bul. 280.
- Mayer, I. D., Ind. Bul. 436.
- Mayfield, H. L., Mont. Bul. 373, 379, 381.
- Maynard, L. A., N. Y. (Cornell) Bul. 722; Mem. 227.
- Meade, DeVoe, Md. Bul. 428.
- Means, R. H., Miss. Bul. 328, 329.
- Megee, C. R., Mich. Spec. Bul. 304.
- Meldrum, H. R., Iowa Soil Rpt. 79.

- Mercer, R. E., Mo. Bul. 415.
 Merkle, F. G., Pa. Bul. 373, 398.
 Merrick, Frank, La. Bul. 321, 325.
 Metzger, W. H., Kans. Tech. Bul. 45.
 Metzler, W. H., Ark. Bul. 388.
 Meyers, A. M., Jr., Mo. Bul. 421.
 Meyers, Max, S. Dak. Bul. 343.
 Michael, C. E., Mich. Tech. Bul. 174.
 Michelbacher, A. E., Calif. Bul. 644; Hilgardia, vol. 13, no. 3.
 Mick, A. H., Mich. Spec. Bul. 299; Tech. Bul. 172.
 Middleton, G. K., N. C. Bul. 328.
 Midgley, A. R., Vt. Bul. 445, 456, 460.
 Milbrath, J. A., Oreg. Bul. 382, 385.
 Milby, T. T., Okla. Bul. 236.
 Miles, I. E., Miss. Bul. 326.
 Millar, C. E., Mich. Spec. Bul. 299.
 Miller, E. C., Kans. Tech. Bul. 47.
 Miller, E. E., Md. Bul. 435.
 Miller, Frank, Nebr. Bul. 324.
 Miller, L. F., Kans. Bul. 283.
 Miller, M. F., Mo. Bul. 403.
 Miller, R. C., Pa. Bul. 397, 401.
 Milliron, H. E., Mich. Tech. Bul. 173.
 Mills, H. B., Mont. Bul. 366, 384.
 Mimms, O. L., Idaho Bul. 231.
 Misner, E. G., N. Y. (Cornell) Bul. 719.
 Mitchell, H. S., Mass. Bul. 374.
 Mitchell, J. H., S. C. Bul. 321, 329.
 Mitchell, M. P., Ind. Bul. 445.
 Mixner, J. P., N. J. Bul. 667.
 Moltzau, R. H., Hawaii Bul. 83.
 Monosmith, R. O., Miss. Bul. 340.
 Monroe, M. M., Maine Bul. 394.
 Monson, O. W., Mont. Bul. 380.
 Moore, J. S., Miss. Bul. 343; Tech. Bul. 25.
 Moore, M. B., Minn. Tech. Bul. 137.
 Moore, R. E., Calif. Hilgardia, vol. 12, no. 5.
 Morgan, M. F., Conn. (State) Bul. 422, 423, 429, 439.
 Morison, F. L., Ohio Bul. 604.
 Morrill, A. W., Jr., Conn. (State) Bul. 422, 433.
 Morris, H. E., Mont. Bul. 375.
 Morrison, F. B., N. Y. (Cornell) Bul. 730.
 Morrison, H. B., Ky. Bul. 402.
 Morrow, E. B., N. C. Bul. 320, 327.
 Moser, A. M., S. C. Bul. 319.
 Moxon, A. L., S. Dak. Tech. Bul. 2.
 Mrak, E. M., Calif. Bul. 636.
 Mueller, W. O., Vt. Bul. 456.
 Mueller, W. S., Mass. Bul. 374.
 Mull, L. E., Mo. Res. Bul. 319.
 Mumford, F. B., Mo. Bul. 413, 419.
 Munro, J. A., N. Dak. Bul. 295.
 Murneek, A. E., Mo. Bul. 416; Res. Bul. 314.
 Murphy, D. M., Idaho Bul. 238.
 Murphy, H. F., Calif. Hilgardia, vol. 12, no. 5.
 Murray, W. G., Iowa Res. Bul. 252, 266.
 Musbach, F. L., Wis. Bul. 444.
 Musbach, W. F., S. Dak. Bul. 345.
 Muse, Marianne, Vt. Bul. 450, 466.
 Mussehl, F. E., Nebr. Res. Bul. 108, 109, 116, 119, 120.
 Muth, O. H., Oreg. Bul. 360, 367.
 Naghski, J., N. H. Tech. Bul. 72.
 Nagle, J. P., Wash. Pop. Bul. 159.
 Naylor, H. B., N. Y. (Cornell) Bul. 739.
 Neale, E. C., Va. Bul. 325.
 Neale, P. E., N. Mex. Bul. 262, 272.
 Nearing, G. G., N. J. Bul. 666.
 Neller, J. R., Fla. Bul. 338.
 Nelson, A. G., S. Dak. Bul. 341, 346.
 Nelson, E. W., Colo. Bul. 459.
 Nelson, F. E., Iowa Res. Bul. 256.
 Nelson, J. W., Minn. Tech. Bul. 136.
 Nelson, Martin, Ark. Bul. 403.
 Nelson, P. M., Iowa Res. Bul. 255, 279.
 Newhall, A. G., N. Y. (Cornell) Bul. 731.
 Newkirk, W. B., Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 Newlander, J. A., Vt. Bul. 459.
 Newman, J. B., Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 Newsom, I. E., Colo. Bul. 455.
 Newsom, L. D., La. Bul. 323.
 Nicholas, J. E., Pa. Bul. 375.
 Nicholls, W. H., Iowa Res. Bul. 250, 261.
 Nielson, E. A., Minn. Misc. Rpt. 1.
 Norris, L. C., N. Y. (Cornell) Bul. 723.
 North, M. O., Wyo. Bul. 232.
 Norton, E. A., Mo. Bul. 421.
 Norton, L. J., Ill. Bul. 468.
 Nuetzman, D. D., Vt. Bul. 466.
 Nuissl, F. J., N. J. Bul. 671.
 Obenshain, J. D., Va. [Unnumbered Pub.] 1938.
 Oderkirk, A. D., Iowa Bul. P16.
 Odland, T. E., R. I. Bul. 271.
 Ogden, W. B., Wis. Bul. 445, 448.
 Ogier, T. L., Tex. Bul. 572, 577, 593.
 O'Kane, W. C., N. H. Tech. Bul. 74.
 O'Kelly, J. F., Miss. Bul. 348.
 Olney, J. F., Nebr. Res. Bul. 118.
 Olson, A. R., Conn. (State) Bul. 427.
 Olson, Carl, Jr., Mass. Bul. 370.
 Olson, O. E., S. Dak. Tech. Bul. 2.
 Olson, P. J., N. Dak. Bul. 291.
 Openshaw, M. E., Vt. Bul. 450.
 Orr, A. E., Wash. Bul. 374, 385.
 Orr, L. W., Minn. Tech. Bul. 142.
 Orton, C. R., W. Va. Bul. 298.
 Ott, W. H., Pa. Bul. 381.
 Overman, O. R., Ill. Bul. 457.
 Overpeck, J. C., N. Mex. Bul. 269, 270.
 Owen, C. R., Miss. Bul. 339.
 Oyler, Merton, Ky. Bul. 395.
 Packard, C. M., Ind. Bul. 440.
 Page, G. N., La. Bul. 311.
 Page, J. C., Mo. Bul. 421.
 Painter, R. H., Kans. Tech. Bul. 49.
 Palmer, L. S., Minn. Tech. Bul. 134, 136.
 Pappenheimer, A. M., Conn. (Storrs) Bul. 229.
 Parfitt, E. H., Ind. Bul. 449.
 Parker, B. M., N. H. Tech. Bul. 74.
 Parker, K. G., N. Y. (Cornell) Bul. 740.
 Parker, J. H., Kans. Tech. Bul. 49.

- Parshall, Maxwell, Colo. Bul. 456.
 Parsons, C. H., Mass. Bul. 357, 362.
 Parvin, D. W., Miss. Bul. 332, 352.
 Paschal, J. L., S. Dak. Bul. 341.
 Pate, W. W., Mo. Bul. 421.
 Patton, A. R., Ark. Bul. 375.
 Patton, C. A., Ohio Bul. 608.
 Patty, R. L., S. Dak. Bul. 336.
 Payne, L. F., Kans. Tech. Bul. 46.
 Peacock, N. D., Mich. Tech. Bul. 162.
 Pederson, C. S., N. Y. State Bul. 693.
 Peech, Michael, Fla. Bul. 340.
 Peet, L. J., Iowa Res. Bul. 282.
 Penczek, E. S., N. Y. State Bul. 696.
 Penn, R. J., S. Dak. Bul. 328, 345.
 Pennell, R. B., Mich. Tech. Bul. 168.
 Penquite, Robert, Okla. Bul. 243, 244.
 Pepper, J. H., Mont. Bul. 370.
 Percival, G. P., N. H. Bul. 320.
 Peters, C. W., Oreg. Bul. 377, 378.
 Peterson, G. M., Calif. Bul. 630.
 Peterson, V. E., Mo. Res. Bul. 296.
 Peterson, W. J., Kans. Tech. Bul. 46, 51.
 Petzel, F. E., Minn. Misc. Rpt. 1.
 Pfund, M. C., N. Y. (Cornell) Mem. 225.
 Phelps, E. L., Minn. Misc. Rpt. 1.
 Phillips, R. E., Iowa Bul. P16.
 Phillips, R. W., Utah Bul. 292.
 Phillips, T. G., N. H. Bul. 324; Tech. Bul. 73.
 Phinney, T. D., Idaho Bul. 228.
 Pickett, B. S., Iowa Res. Bul. 280; Mich. Tech. Bul. 169.
 Pierpont, R. L., Del. Bul. 217, 221.
 Pingrey, H. B., N. Mex. Bul. 261, 267.
 Pirone, P. P., N. J. Bul. 679.
 Pitner, John, Miss. Bul. 338, 348.
 Plastringer, W. N., Conn. (Storrs) Bul. 231.
 Platenius, Hans, N. Y. (Cornell) Bul. 723, 732.
 Poffenberger, P. R., Md. Bul. 426, 429, 434.
 Poley, W. E., S. Dak. Bul. 330, 335, 337.
 Poling, E. B., Ohio Bul. 606.
 Pond, G. A., Minn. Bul. 347 and suppl.; Tech. Bul. 138.
 Pope, H. W., La. Bul. 306.
 Porter, D. R., Calif. Hilgardia, vol. 12, no. 9; vol. 13, no. 2.
 Post, Kenneth, N. Y. (Cornell) Bul. 745.
 Potter, G. F., N. H. Bul. 323.
 Potter, P. B., Va. Bul. 325.
 Powers, W. L., Oreg. Bul. 365.
 Pratt, A. D., Va. Bul. 326; Tech. Bul. 65.
 Pressley, E. H., Ariz. Bul. 167.
 Price, F. E., Oreg. Bul. 379, 386.
 Price, H. B., Ky. Bul. 390.
 Prill, E. A., Iowa Res. Bul. 268.
 Prince, A. L., N. J. Bul. 677.
 Prince, F. S., N. H. Bul. 320, 324.
 Pubols, B. H., Wash. Bul. 374.
 Pucher, G. W., Conn. (State) Bul. 424, 442.
 Puhr, L. F., S. Dak. Tech. Bul. 1.
 Pyke, W. E., Colo. Tech. Bul. 27.
 Quesenberry, J. R., Mont. Bul. 380.
 Quintus, P. E., Iowa Res. Bul. 265.
 Quisenberry, K. S., Nebr. Bul. 326, 328.
 Raeburn, J. R., N. Y. (Cornell) Mem. 220.
 Ragsdale, A. C., Mo. Bul. 407; Res. Bul. 295, 317.
 Rahn, E. M., Pa. Bul. 393.
 Ralston, N. P., Mo. Res. Bul. 317.
 Rampton, H. H., Oreg. Bul. 361.
 Raper, R. H., N. C. Bul. 323.
 Rauchenstein, Emil, Maine Bul. 398; N. H. Bul. 314; N. J. Bul. 684.
 Rawlings, B. R., Jr., Mo. Res. Bul. 308.
 Rawlins, T. E., Calif. Hilgardia, vol. 12, no. 10.
 Rawlins, W. A., N. Y. (Cornell) Bul. 738.
 Ray, G. S., Ohio Bul. 602, 612.
 Raynor, R. N., Calif. Bul. 634.
 Rea, H. E., Tex. Bul. 573.
 Reece, R. P., N. J. Bul. 667, 675.
 Reed, J. F., La. Bul. 307, 313.
 Reeves, R. G., Tex. Bul. 574.
 Reid, W. H. E., Mo. Bul. 408, 420; Res. Bul. 302, 303, 319, 322, 323.
 Reimer, F. C., Oreg. Bul. 374.
 Reineke, E. P., Mo. Res. Bul. 296.
 Reinking, O. A., N. Y. State Bul. 689.
 Reinmiller, C. F., Nebr. Bul. 323.
 Reitz, L. P., Mont. Bul. 375.
 Renne, R. R., Mo. Bul. 421; Mont. Bul. 368, 382, 383.
 Reuss, C. F., Wash. Bul. 373, 380, 387.
 Reuther, Walter, Fla. Bul. 343.
 Reynolds, E. B., Tex. Bul. 570.
 Rhoades, H. F., Nebr. Res. Bul. 113.
 Rhodes, A. D., Conn. (State) Bul. 427.
 Richards, B. L. Jr., N. Y. (Cornell) Mem. 227.
 Richards, D. E., Oreg. Bul. 370.
 Richards, M. C., N. Y. (Cornell) Bul. 718.
 Richardson, J. E., Mont. Bul. 373, 379, 381.
 Richey, A. C., Pa. Bul. 370.
 Nichey, H. W., Iowa Res. Bul. 280.
 Riedl, W. A., Wyo. Bul. 236.
 Rinear, E. H., N. J. Bul. 663.
 Ringrose, R. C., N. Y. (Cornell) Bul. 725.
 Ripperton, J. C., Hawaii Bul. 82, 83.
 Ritcher, P. O., Ky. Bul. 389, 393, 401.
 Ritchie, W. S., Mass. Bul. 374.
 Robbins, W. W., Calif. Bul. 637.
 Roberts, C. A., Okla. Bul. 240.
 Roberts, George, Ky. Bul. 397.
 Roberts, J. B., Ky. Bul. 390.
 Roberts, O. C., Mass. Bul. 360.
 Roberts, R. E., Ind. Bul. 448.
 Robertson, E. I., Wash. Bul. 372, 381, 388.
 Robertson, Lynn S., Ind. Bul. 435, 442, 445, 452, 456.
 Robichaux, R. P., Oreg. Bul. 383.
 Robinson, J. L., Iowa Bul. 379; P2.
 Robison, W. L., Ohio Bul. 607.
 Robotka, Frank, Iowa Res. Bul. 265, 276.
 Rochester, M. C., S. C. Bul. 318.
 Rogeness, Olav, S. Dak. Bul. 341.
 Rogers, L. H., Fla. Bul. 341.
 Rollins, M. A., N. Y. (Cornell) Bul. 743.
 Rosen, H. R., Ark. Bul. 391.
 Rosenfels, R. S., Calif. Hilgardia, vol. 12, no. 3; Nev. Bul. 152.
 Roskelley, R. W., Colo. Bul. 457, 462.

- Roth, W. J., Tenn. Bul. 169.
 Rothenberger, W. R., Ind. Bul. 436.
 Ruden, W. L., Nebr. Bul. 324.
 Rudolfs, Willem, N. J. Bul. 659.
 Ruehle, G. D., Fla. Bul. 337, 348, 349.
 Rufener, W. W., Wash. Bul. 369, 391.
 Rusk, H. P., Ill. Bul. 454.
 Russell, W. C., N. J. Bul. 683.
 Rutledge, R. H., Mo. Bul. 421.
 Ruyle, E. H., N. Y. State Tech. Bul. 252.
 Ruzek, C. V., Oreg. Bul. 365.
 Ryall, A. L., Oreg. Bul. 374.
- St. John, J. L., Wash. Bul. 383.
 Sallee, G. A., Minn. Tech. Bul. 138.
 Salter, L. A., Jr., Mo. Bul. 421.
 Salter, R. M., Ohio Bul. 603, 605.
 Sampson, A. W., Calif. Bul. 627.
 Sanborn, B. G., N. H. Bul. 316, 328.
 Sanborn, Ruby, Mass. Bul. 359.
 Sanders, D. A., Fla. Bul. 346.
 Sandsten, E. P., Colo. Bul. 458.
 Sandstrom, W. M., Minn. Tech. Bul. 136.
 Sanmann, F. P., Ill. Bul. 457.
 Sarles, W. B., Wis. Bul. 444.
 Saunderson, M. H., Mont. Bul. 377.
 Saville, R. J., La. Bul. 309.
 Schafer, E. G., Wash. Bul. 370.
 Schneller, M. R., Vt. Bul. 444.
 Schollenberger, C. J., Ohio Bul. 605.
 Schoth, H. A., Oreg. Bul. 361.
 Schroeder, R. A., Mo. Res. Bul. 309.
 Schuster, C. E., Oreg. Bul. 372.
 Schuster, G. L., Del. Bul. 220, 227.
 Schwaradt, H. H., Ark. Bul. 377.
 Scoglund, W. C., Pa. Bul. 389.
 Scott, G. W., Calif. Hilgardia, vol. 13, no. 2.
 Scott, L. E., S. C. Bul. 321.
 Scoville, G. P., N. Y. Cornell) Bul. 717.
 Scripture, P. N., N. H. Bul. 320.
 Scullen, H. A., Oreg. Bul. 362.
 Searight, W. V., S. Dak. Tech. Bul. 2.
 Sears, O. H., Ill. Bul. 456.
 Secrest, Edmund, Ohio Bul. 600, 617.
 Seghetti, L., Oreg. Bul. 360, 367.
 Sell, O. E., Ga. Bul. 207.
 Seufferle, C. H., Md. Bul. 436.
 Severin, H. H. P., Calif. Hilgardia, vol. 12, no. 8.
 Sewell, W. H., Okla. Tech. Bul. 9.
 Shaffer, M. L., La. Bul. 308.
 Shaulis, N. J., Pa. Bul. 373.
 Shaw, J. N., Oreg. Bul. 360, 367.
 Shearer, P. S., Iowa Bul. 380.
 Sheets, Olive, Miss. Tech. Bul. 26.
 Shepard, H. H., Minn. Bul. 340, 341.
 Shepherd, Geoffrey, Iowa Res. Bul. 262, 270;
 Iowa Corn Res. Inst. Cont., vol. 1, no. 3.
 Shepherd, W. O., Colo. Bul. 459; Nebr. Res. Bul. 117.
 Sherman, Franklin, S. C. Pul. 322.
 Sherman, R. W., Ohio Bul. 609.
 Sherwood, D. H., Oreg. Bul. 380.
 Sherwood, F. W., N. C. Tech. Bul. 61.
 Sherwood, R. M., Tex. Bul. 569, 583, 588.
 Shigley, J. F., Pa. Bul. 395.
 Shires, L. B., N. Mex. Bul. 263.
- Shirky, S. B., Mo. Bul. 413.
 Shultis, Arthur, Calif. Bul. 640.
 Sievers, F. J., Mass. Bul. 355, 369.
 Silkett, R. J., Mo. Res. Bul. 324.
 Simonson, R. W., Iowa Soil Rpt. 79.
 Simpson, G. W., Maine Bul. 403.
 Sinclair, W. B., Calif. Hilgardia, vol. 12, no. 7.
 Singleton, W. R., Conn. (State) Bul. 435.
 Sjögren, J. W., Va. Bul. 319.
 Sjolander, N. O., Tenn. Bul. 172.
 Skelley, W. C., N. J. Bul. 661.
 Skold, L. N., Kans. Bul. 288.
 Slagsvold, P. L., Mont. Bul. 385.
 Slanetz, L. W., N. H. Tech. Bul. 72.
 Slate, W. L., Conn. (State) Bul. 421, 438.
 Smith, C. W., Nebr. Bul. 324.
 Smith, F. L., Calif. Hilgardia, vol. 12, no. 9.
 Smith, F. V., Ind. Bul. 454, 456.
 Smith, G. D., Ill. Soil Rpt. 66, 67.
 Smith, G. E. P., Ariz. Tech. Bul. 87.
 Smith, G. H., Jr., Nev. Bul. 151.
 Smith, G. R., N. C. Bul. 323, 325; Tech. Bul. 64.
 Smith, H. P., Tex. Bul. 575, 580.
 Smith, H. V., Ariz. Tech. Bul. 81.
 Smith, L. F., Kans. Bul. 285.
 Smith, L. H., Ill. Soil Rpt. 64, 65, 66, 67, 68, 69.
 Smith, Luther, Mo. Res. Bul. 298.
 Smith, M. C., Ariz. Tech. Bul. 84.
 Smith, M. G., Ind. Bul. 442, 456.
 Smith, R. C., Kans. Tech. Bul. 48.
 Smith, R. S., Ill. Soil Rpt. 64, 65, 68, 69.
 Smith, T. L., La. Bul. 319.
 Smith, T. O., N. H. Bul. 315, 317, 327, 329;
 Tech. Bul. 73.
 Smith, V. H., N. H. Bul. 314.
 Snowden, O. L., Miss. Bul. 337.
 Snyder, E. B., Nebr. Res. Bul. 115.
 Snyder, R. S., Idaho Bul. 233.
 Sommer, H. H., Mich. Tech. Bul. 164; Wis. Res. Bul. 137.
 Sonley, L. T., Vt. Bul. 462.
 Sorenson, C. J., Utah Bul. 284.
 Southern, J. H., Okla. Bul. 239.
 Southwick, Lawrence, Mass. Bul. 372.
 Sparlin, E. E., Ark. Bul. 369, 399, 400.
 Sparling, J. T., Mont. Bul. 376.
 Spector, Harry, Ariz. Tech. Bul. 84.
 Sprague, H. B., N. J. Bul. 673, 676.
 Sprague, Roderick, Oreg. Bul. 363.
 Stahl, W. H., Mich. Tech. Bul. 168.
 Staker, E. V., N. Y. (Cornell) Mem. 219.
 Stakman, E. C., Minn. Tech. Bul. 137.
 Staley, A. E., Jr., Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 Stanley, E. B., Ariz. Bul. 170.
 Stansel, R. H., Tex. Bul. 570.
 Starch, E. A., Mo. Bul. 421.
 Staten, Glen, N. Mex. Bul. 260.
 Steanson, Oscar, Ga. Bul. 202; S. C. Bul. 318.
 Stearns, L. A., Del. Bul. 225.
 Steffen, E. H., Wash. Pop. Bul. 159.
 Steiner, H. M., Pa. Bul. 376, 390.
 Stephenson, R. E., Oreg. Bul. 372.
 Stevens, R. D., Ark. Bul. 396.

- Stevenson, D. D., Pa. Bul. 394.
 Stevenson, G. T., Va. Bul. 321.
 Stoddart, L. A., Utah Bul. 291.
 Storie, R. E., Calif. Bul. 638.
 Stott, L. H., Nebr. Res. Bul. 114.
 Stout, G. J., Pa. Bul. 393.
 Stout, R. E., Oreg. Bul. 376.
 Stracener, C. L., La. Bul. 323.
 Strand, N. V., Iowa Res. Bul. 260, 262.
 Street, O. E., Conn. (State) Bul. 422, 429, 433.
 Streets, R. B., Ariz. Bul. 162.
 Stroman, G. N., N. Mex. Bul. 270.
 Struthers, D. K., Iowa Bul. P9.
 Stuart, H. O., R. I. Bul. 273.
 Sturgis, M. B., La. Bul. 307, 313.
 Sullivan, James, Tex. Bul. 578, 594.
 Sullivan, Wallace, Calif. Bul. 641.
 Supplee, W. C., Md. Bul. 428.
 Sure, Barnett, Ark. Bul. 373.
 Sutherland, M. H., S. C. Bul. 318.
 Sutton, T. S., Ohio Bul. 610.
 Swanback, T. R., Conn. (State) Bul. 422, 433.
 Sweet, R. D., N. Y. (Cornell) Bul. 714.
 Swenk, M. H., Nebr. Bul. 327.
 Swenson, S. P., S. Dak. Bul. 342.
- Takahashi, Makoto, Hawaii Bul. 84.
 Talbert, T. J., Mo. Res. Bul. 313.
 Tate, H. D., Nebr. Bul. 327.
 Tate, H. F., Ariz. Bul. 162.
 Taylor, A. E., Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 Taylor, M. W., N. J. Bul. 683.
 Taylor, R. D., Ariz. Bul. 164, 165, 168, 169.
 Taylor, W. P., Ariz. Tech. Bul. 86.
 Telford, H. S., Minn. Tech. Bul. 140.
 Templeton, H. L., Wis. Res. Bul. 137.
 Tennant, J. L., R. I. Bul. 274.
 Tepper, A. E., N. H. Bul. 312.
 Tetreau, E. D., Ariz. Bul. 163; Tech. Bul. 88.
 Thaden, J. F., Mich. Spec. Bul. 302.
 Tharp, M. M., Ky. Bul. 405.
 Tharp, W. H., Ark. Bul. 401.
 Theis, R. M., Ark. Bul. 373.
 Thibodeaux, B. H., Tex. Bul. 568.
 Thiessen, E. J., Wyo. Bul. 235, 242.
 Thomas, C. A., Pa. Bul. 392.
 Thomas, H. Earl, Calif. Hilgardia, vol. 12, no. 4; vol. 12, no. 10.
 Thomas, W. A., Iowa Bul. P13.
 Thomas, W. P., Utah Bul. 289.
 Thomas, Walter, Pa. Bul. 378.
 Thompson, R. B., Okla. Bul. 236, 240, 243, 244.
 Thompson, W. C., N. J. Bul. 668, 685.
 Thompson, W. L., Fla. Bul. 337.
 Thornton, S. B., La. Bul. 309.
 Tiffany, M. E., Vt. Bul. 448, 451.
 Tilford, P. E., Ohio Bul. 615.
 Timmons, J. F., Mo. Bul. 409.
 Tingay, D. C., Utah, Bul. 287, 293.
 Tinley, J. M., Calif. Bul. 642.
 Tisdale, W. B., Fla. Bul. 330, 342.
 Todd, F. E., Oreg. Bul. 362.
 Todd, J. N., S. C. Bul. 322.
 Todhunter, E. N., Wash. Bul. 375.
 Toews, J. L., Idaho Bul. 230.
- Tolman, T. G., N. Y. State Tech. Bul. 252.
 Tomhave, A. E., Del. Bul. 219.
 Tordt, Therese, Mich. Tech. Bul. 171.
 Tower, B. A., Hawaii Bul. 81.
 Townsend, G. R., Fla. Bul. 336.
 Tracy, P. H., Ill. Bul. 452, 459.
 Tressler, D. K., N. Y. State Bul. 690.
 Truog, Emil, Wis. Bul. 444.
 Tuck, J. B., Kans. Tech. Bul. 48.
 Tucker, C. M., Mo. Res. Bul. 311.
 Tucker, H. H., N. J. Bul. 671.
 Tuckey, S. L., Ill. Bul. 459.
 Turner, C. W., Mo. Res. Bul. 296, 310, 317.
 Turnipseed, G. F., Ala. Bul. 248.
 Twiehaus, M. J., Kans. Bul. 284.
 Tyson, James, Mich. Tech. Bul. 167.
- Ulrey, Orion, Mich. Spec. Bul. 300.
 Underwood, F. L., Va. Tech. Bul. 64, 67.
 Uren, A. W., Mo. Bul. 412.
- Vaile, J. E., Ark. Bul. 378, 379.
 Valteau, W. D., Ky. Bul. 393, 399.
 Van Doren, C. A., Ill. Bul. 462.
 Van Es, Leunis, Nebr. Res. Bul. 118.
 Van Vlack, C. H., Iowa Bul. P11, P17.
 Vickery, H. B., Conn. (State) Bul. 424, 442.
 Vinson, C. G., Mo. Res. Bul. 297, 316.
 Vogel, H. A., Mo. Bul. 421.
 Voorhies, E. C., Calif. Bul. 642.
 Vorhies, C. T., Ariz. Tech. Bul. 86.
- Wadleigh, C. H., Ark. Bul. 376, 401.
 Wagner, Arnold, Ohio Bul. 611.
 Waite, W. C., Minn. Bul. 344.
 Wakefield, Richard, Wash. Bul. 378.
 Wakeman, A. J., Conn. (State) Bul. 424, 442.
 Waksman, S. A., N. J. Bul. 631.
 Walker, A. H., Ariz. Bul. 170.
 Walker, J. C., Wis. Bul. 444.
 Walker, L. S., Vt. Bul. 447, 453, 455, 458, 464, 468.
 Walker, R. H., Utah Bul. 294.
 Walker, W. P., Md. Bul. 435, 438.
 Wall, Robert, Okla. Bul. 242.
 Waller, A. G., N. J. Bul. 660, 684.
 Wallis, G. C., S. Dak. Bul. 331.
 Wallrabenstein, P. P., Ohio Bul. 602, 612.
 Waltman, C. S., Ky. Bul. 394, 396, 410.
 Ward, M. V., Miss. Tech. Bul. 26.
 Ware, E. R., Kans. Bul. 285.
 Waring, E. B., N. Y. (Cornell) Mem. 226.
 Warren, Jean, N. Y. (Cornell) Bul. 734.
 Warren, S. W., N. Y. (Cornell) Bul. 726.
 Warrington, S. T., Minn. Bul. 345.
 Wascher, Herman, Ill. Soil Rpt. 65, 66.
 Washburn, L. E., Mo. Res. Bul. 295.
 Watkins, J. V., Fla. Bul. 347.
 Watson, A. E., Maine Bul. 398.
 Watts, R. L., Pa. Bul. 382.
 Watts, V. M., Ark. Bul. 392.
 Waugh, F. V., Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 Weakley, C. E., Jr., W. Va. Bul. 294.
 Weaver, Earl, Okla. Tech. Bul. 6.
 Weaver, F. P., Pa. Bul. 384.
 Weaver, J. W., Jr., Tenn. Bul. 170.

- Weber, A. D., Kans. Tech. Bul. 51.
 Weber, G. F., Fla. Bul. 332, 345.
 Webster, O. J., Nebr. Bul. 326, 328, 329.
 Webster, R. L., Wash. Bul. 389.
 Weckel, K. G., Wis. Res. Bul. 136.
 Weetman, L. M., Ark. Bul. 391.
 Wehrle, L. P., Ariz. Bul. 162.
 Wehrwein, G. S., Mo. Bul. 421.
 Wehling, R. M., Colo. Bul. 461.
 Weirether, F. J., Conn. (Storrs) Bul. 231.
 Weiss, M. G., Iowa Res. Bul. 257.
 Weitzell, E. C., W. Va. Bul. 291, 293.
 Wells, Laura, Oreg. Bul. 369.
 Wells, O. V., Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 Welton, F. A., Ohio Bul. 603, 613.
 Wessels, P. H., N. Y. State Bul. 685.
 West, H. O., Miss. Bul. 330, 335, 337, 341, 344, 351.
 West, W. A., Oreg. Bul. 375.
 Westgate, W. A., Calif. Bul. 634.
 Wharton, M. F., Ariz. Tech. Bul. 85.
 Wheating, L. C., Wash. Bul. 392.
 Whetten, N. L., Conn. (Storrs) Bul. 230.
 Whitacre, Jessie, Tex. Bul. 567, 576.
 Whitacre, W. R., Pa. Bul. 372.
 Whitaker, Rodney, Ariz. Bul. 167.
 Whitcomb, W. D., Mass. Bul. 375.
 White, Albert, Md. Bul. 425.
 White, H. E., Mass. Bul. 376.
 White, J. W., Pa. Bul. 370.
 White, O. H., N. Y. (Cornell) Bul. 729.
 Whitney, L. D., Hawaii Bul. 82, 84.
 Wick, A. N., Minn. Tech. Bul. 136.
 Wilcox, R. H., Ill. Bul. 467.
 Wilcox, W. W., Iowa Res. Bul. 260.
 Wilde, E. I., Pa. Bul. 386.
 Wilford, E. J., Ky. Bul. 408.
 Willard, H. S., Wyo. Bul. 237.
 Willham, O. S., Okla. Tech. Bul. 7.
 Williams, B. O., S. C. Bul. 326.
 Williams, C. B., N. C. Tech. Bul. 66.
 Williams, C. F., N. C. Bul. 321, 322; Tech. Bul. 65.
 Williams, J. K., Idaho Bul. 235.
 Williams, J. S., Utah Bul. 296.
 Williams, L. F., Conn. (Storrs) Bul. 231.
 Williams, P. S., Pa. Bul. 395, 396.
 Williams, R. M., N. C. Bul. 324.
 Willis, R. L., N. J. Bul. 670, 686.
 Willis, W. P., Jr., Mont. Bul. 369, 378.
 Willman, J. P., N. Y. (Cornell) Bul. 730.
 Wilson, B. D., N. Y. (Cornell) Mem. 219.
 Wilson, C. P., N. Mex. Bul. 269.
 Wilson, C. V., W. Va. Bul. 295.
 Wilson, E. E., Calif. Hilgardia, vol. 12, no. 4.
 Wilson, H. F., Wis. Bul. 444.
 Wilson, I. C., Ark. Bul. 372, 394.
 Wilson, J. K., N. Y. (Cornell) Mem. 221.
 Wilson, J. W., S. Dak. Bul. 329.
 Wilson, Maud, Oreg. Bul. 369.
 Wilson, W. O., S. Dak. Bul. 330, 337.
 Wilster, G. H., Oreg. Bul. 368, 376, 379, 383.
 Winchester, C. F., Mo. Res. Bul. 315.
 Wingert, J. B., Iowa Bul. P14.
 Winters, Eric, Ill. Bul. 472; Soil Rpt. 64.
 Wirth, C. L., Mo. Bul. 421.
 Wiseman, L. L., Mo. Bul. 417.
 Wolfe, H. S., Fla. Bul. 350, 352.
 Wood, Merrill, Pa. Bul. 387.
 Woodbury, G. W., Idaho Bul. 231.
 Woodin, M. D., N. Y. (Cornell) Bul. 727.
 Woodroof, J. G., Ga. Bul. 205.
 Woodside, A. M., Va. Bul. 320.
 Woodward, R. W., Utah Bul. 287, 293.
 Woodworth, H. C., N. H. Bul. 314, 322, 323.
 Woodworth, R. N., Md. Bul. 437.
 Woolbert, R. L., S. Dak. Bul. 332.
 Work, R. A., Oreg. Bul. 374.
 Work, S. H., Hawaii Bul. 85.
 Worthley, H. N., Pa. Bul. 376, 390, 400.
 Wright, J. W., N. C. Bul. 325.
 Wright, K. E., Ill. Pul. 457.
 Wright, K. T., Mich. Spec. Bul. 297, 305.
 Wright, Turner, S. Dak. Bul. 329.
 Wrigley, P. I., Pa. Bul. 383.
 Wyckoff, V. J., Md. Bul. 438.
 Wylie, C. E., Tenn. Bul. 170.
 Yale, M. W., N. Y. State Tech. Bul. 253.
 Yarnell, S. H., Tex. Bul. 576.
 York, H. A., Miss. Bul. 331.
 Young, E. C., Ind. Bul. 441.
 Young, V. H., Ark. Pul. 389.
 Zahnley, J. W., Kans. Bul. 282.
 Zuber, M. S., Iowa Bul. 379, P2.
 Zwemer, E. A., Mich. Tech. Bul. 171.

INDEX OF SUBJECTS

- Aberdeen branch station, phosphate and fertilizer investigation, Idaho Bul. 230.
- Abortion in farm animals, studies, Minn. Bul. 348.
- Achromobacter putrefaciens*, and putrid defect of butter, Iowa Res. Bul. 267.
- Acid fertilizers, vs. neutral, Miss. Bul. 338.
- Acid production, by butter cultures, Iowa Res. Bul. 256.
- Adirondacks, forest site studies, N. Y. (Cornell) Mem. 229.
- Aeolus dorsalis*, Ky. Bul. 392.
- Aeolus mellillus*, Ky. Bul. 398.
- Agricultural Adjustment Act. 1938—
 effect on agricultural industry, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 effect on supply and price of corn, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 effect on wet-milling industry, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
- Agricultural conservation program in New Hampshire, N. H. Bul. 314.
- Agricultural credit—
 Arkansas, Ashley County, Ark. Bul. 400.
 Arkansas, Hempstead County, Ark. Bul. 399.
 extended by cooperative exchanges, Mo. Bul. 415.
 farm mortgages, Mont. Bul. 383.
 land classification as aid to, Mo. Bul. 421.
 lending experience in east-central Illinois, Ill. Bul. 468.
 short-term, for agricultural production, S. C. Bul. 327.
 See also Mortgages.
- Agricultural experiment stations, Mo. Bul. 419.
- Agricultural extension service, Mo. Bul. 419.
- Agricultural industry, effect of Agricultural Adjustment Act, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
- Agricultural production—
 and types of farming, Minn. Bul. 347, and suppl.
 statistics, Ky. Bul. 403; Suppl. to Minn. Bul. 347.
- Agricultural products—
 and prices, Louisiana farms, La. Bul. 324.
 marketing by truck, Ind. Bul. 443.
 marketing through community auctions, Md. Bul. 434.
 prices, La. Bul. 324; Pa. Bul. 384.
- Agricultural products—Continued.
 prices and index numbers, Miss. Bul. 332.
 transportation by truckers, Ind. Bul. 446.
- Agricultural programs, planning and differences in farming, Iowa Res. Bul. 260.
- Agriculture—
 economic aspects in Jackson County Soil Conservation Area, W. Va. Bul. 291.
 economic conditions and problems in Yakima Valley, Wash. Bul. 377, 393.
 statistics, Ohio Bul. 602, 612.
 Utah, trends, Utah Bul. 286.
 Washington, Yakima Valley, economic conditions, Wash. Bul. 377, 393.
 West Virginia, Jackson soil conservation area, W. Va. Bul. 291.
- Agriotes mancus*, biology and control, N. Y. (Cornell) Bul. 738.
- Agronomic farm practices, Franklin County, N. C. Tech. Bul. 66.
- Alcohol, power, from farm products, chemistry, engineering, and economics, Iowa Corn Res. Inst. Cont., vol. 1, no. 3.
- Alfalfa—
 as host of pea aphid, effect on canning pea crop, Wash. Bul. 389.
 caterpillar, biology and control, La. Bul. 323.
 hay and mixed hay and grass silage, feeding dairy cattle, Wash. Bul. 386.
 hay and timothy hay compared as feed for dairy cows, Va. Tech. Bul. 65.
 hay, curing and storage, Iowa Res. Bul. 251.
 hay, feeding dairy cows, with concentrates, Oreg. Bul. 380.
 hay, feeding lambs, N. Mex. Bul. 272.
 hay, milk-producing value, Va. Tech. Bul. 65.
 hay, nutritive value, effect of sulfur dioxide on, N. Y. (Cornell) Mem. 227.
 hopper, three-cornered, biology and control, La. Bul. 323.
 meal, feeding chicks, Nebr. Res. Bul. 116.
 meal, feeding pigs, Pa. Bul. 401.
 nutrients, conservation as silage and hay, Vt. Bul. 459.
 seed production, and Lygus bug injury, Utah Bul. 284.
 weevil, *Bathyplectes curculionis*, effect on, Calif. Hilgardia, vol. 13, no. 3.
 weevil, climatic limitations, Calif. Hilgardia, vol. 13, no. 3.

- Alien plants, growing without cultivation, Calif. Bul. 637.
- Alkali reclamation investigations, Idaho Bul. 233.
- Alkali soils. *See* Soils, alkali.
- Almonds—
- carpel, histogenesis, Calif. Hilgardia, vol. 13, no. 5.
 - histogenesis of vegetative and floral apices, Calif. Hilgardia, vol. 13, no. 5.
- Alpha-dicarbonyl compounds, and flavor in butter, Iowa Res. Bul. 268.
- Alpha hydrate and beta anhydride lactose crystals in sandy ice cream, Mo. Res. Bul. 302.
- Alternaria tomato*, Fla. Bul. 332.
- Amygdalus communis*, histogenesis of vegetative and floral apices, Calif. Hilgardia, vol. 13, no. 5.
- Anabrus simplex*, Mont. Bul. 370.
- Analysis of data for relationships, N. Y. (Cornell) Mem. 231.
- Anasa tristis*, biology, and *Trichopoda pennipes* on, Conn. (State) Bul. 440.
- Androscoggin County, dairy and cash crop farms, organization and management, Maine Bul. 398.
- Anemia—
- hemorrhagic, blood picture in, Minn. Tech. Bul. 139.
 - nutritional, value of vegetables, molasses and sirups in, Miss. Tech. Bul. 26.
- Animal nutrition. *See* Nutrition, animal.
- Animals—
- experimental, composition of skeletal parts, W. Va. Bul. 294.
 - growth and development, Mo. Res. Bul. 295, 315.
 - mineral differences, effect on, Tenn. Pop. Bul. 1.
- See also* Livestock.
- Anopheles quadrimaculatus*, Ark. Bul. 377.
- Anuraphis roseus*, Pa. Bul. 376, 390; Va. Bul. 322.
- Aphids—
- apple, dormant spray, Pa. Bul. 376.
 - in transmission of potato virus diseases, Maine Bul. 403.
 - rosy apple, spraying, Pa. Bul. 376, 390; Va. Bul. 322.
- Apple aphids, dormant spray, Pa. Bul. 376, 390; Va. Bul. 322.
- Apple leaves, photosynthesis and respiration, effect of sulfur fungicides, N. Y. (Cornell) Mem. 222.
- Apple orchards—
- budget method of analysis for study of problems, N. H. Bul. 323.
 - cost of developing, values, and returns, N. Y. (Cornell) Bul. 717.
 - economic studies, N. H. Bul. 323.
- Apple tree borer, round-headed, biology and control, N. Y. State Bul. 688.
- Apple trees—
- aphids and scale insects, spraying, Va. Bul. 322.
- Apple trees—Continued.
- fruit set, effect of temperature, Ill. Bul. 473.
 - nitrogen and phosphorus effect, in sand culture, Ky. Bul. 410.
 - pruning young trees, Mo. Res. Bul. 313.
 - ringing, effect on production, Mo. Bul. 416.
 - size differences, in the nursery, Mich. Tech. Bul. 163.
 - "thin wood" pruning and photosynthate production, Mich. Tech. Bul. 169.
- Apples—
- biochemical studies, Minn. Tech. Bul. 143.
 - bitter pit, in orchard and storage, Vt. Bul. 467.
 - cranberry rootworm, on, N. Y. State Bul. 692.
 - culinary quality, N. Y. (Cornell) Mem. 225.
 - cull, feeding dairy cows, Va. Bul. 326.
 - dropping, McIntosh, Mass. Bul. 372.
 - dropping, naphthalene acetic acid and naphthalene acetamide in control, Mo. Bul. 416.
 - fruit setting, spraying to prevent, Mo. Bul. 416.
 - insects, control, Pa. Bul. 376.
 - McIntosh, quality and price, N. Y. (Cornell) Mem. 220.
 - morphology of flower and fruit, N. Y. (Cornell) Mem. 230.
 - new varieties, S. Dak. Bul. 339.
 - rots, control, Wash. Pop. Bul. 158.
 - sprays, deposition and retention, Pa. Bul. 400.
 - storages, Mass. Bul. 360.
 - varieties, Ky. Bul. 394; S. Dak. Bul. 339.
 - vitamin A and C content of Washington grown, Wash. Bul. 375.
- Apricots, bacterial canker, Calif. Hilgardia, vol. 12, no. 4.
- Aquatic plants, nutritive value and chemical composition, Minn. Tech. Bul. 136.
- Arborvitae, oriental, *Coryneum* (Berchmans) blight, Oreg. Bul. 382.
- Arizona feed control office, report, Ariz. Bul. 164, 168.
- Arizona fertilizer control office, report, Ariz. Bul. 165, 169.
- Arkansas agricultural experiment station, report, Ark. Bul. 386, 405.
- Arsenic—
- fixation in soil, and sterilization with sodium arsenite, Calif. Hilgardia, vol. 12, no. 3.
 - in soils, toxicity studies, Calif. Hilgardia, vol. 12, no. 3.
- Arthritis, and vitamin C, Mass. Bul. 374.
- Artificial insemination, dairy cows, Mo. Bul. 407.
- Ascorbic acid, content of apples, Wash. Bul. 375.
- Ashley County, farm credit, Ark. Bul. 400.

- Asparagus**—
 butts, digestibility by sheep, Calif. Bul. 635.
 crown-grading experiments, Calif. Bul. 633.
 crowns, carbohydrate reserves, effect of fertilizers, S. C. Bul. 321.
 spacing and harvesting period, effect on yield, Iowa Bul. P6.
 "Assassin bug," equine encephalomyelitis virus isolated from, Kans. Tech. Bul. 50.
Assessment—
 and collection of farm taxes, Kans. Bul. 283.
 farm property, inequalities, Md. Bul. 435.
 inequalities in Arkansas, Ark. Bul. 369.
Atherosclerosis in rabbits, induced by feeding cholesterol, effect of kelp, Mass. Bul. 374.
Auctions—
 community, for marketing farm products, Md. Bul. 434.
 fruit and vegetable, effectiveness, N. Y. (Cornell) Bul. 737.
Avena byzantina and *A. sativa*, and Bond variety, inheritance in crosses, Minn. Tech. Bul. 137.
Avitaminosis, biochemistry and pathology, Ark. Bul. 373.
Avocado meal, digestibility by sheep, Calif. Bul. 635.
Azo dyes, fastness to light and washing, Ohio Bul. 601.
Azotobacter, distribution and activity in range and cultivated soils, Ariz. Tech. Bul. 83.
Baby beef enterprise, economic study, Iowa Res. Bul. 272.
Bacteria of butter, growth, effect of reworking, Iowa Res. Bul. 263.
Bacterial canker of stone fruits, Calif. Hilgardia, vol. 12, no. 4.
Bacterial ring rot—
 potatoes, Mont. Bul. 386.
 potatoes, dissemination by grasshoppers, N. Dak. Bul. 295.
 potatoes, ultraviolet light for selecting seed stock, Mont. Bul. 386.
Bacterial soft rot of potatoes, Fla. Bul. 348; Maine Bul. 396.
Bacterial wilt and soft rot, potatoes, Maine Bul. 396.
Bacterium angulatum, Ky. Bul. 399.
Bacterium tabacum, Ky. Bul. 399.
Bait and bait traps, for codling moths, Va. Bul. 320.
Baking—
 cakes, at different altitudes, Colo. Tech. Bul. 27.
 tests, hard red winter and hard red spring wheat, Kans. Bul. 289.
See also Bread; Cake.
Baltimore egg market, economic analysis, Md. Bul. 430.
Bang's disease. *See* Brucellosis.
- Barley**—
 feeding pigs, Ohio Bul. 607.
 seed treatment, Ark. Bul. 389.
 varieties, Nebr. Bul. 328.
 varieties, yield, Wash. Bul. 382.
 Velvon, new variety, Utah Bul. 293.
Barns, drying hay in, Tenn. Bul. 170.
Barriers to trade, resulting from State regulations, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
Bathyplectes curculionis, effect on alfalfa weevil population, Calif. Hilgardia, vol. 13, no. 3.
Beadle County area, planning minimum sized farms for, S. Dak. Bul. 341.
Beans—
 diseases, Fla. Bul. 336; Idaho Bul. 238.
 green string, vitamin content, Mont. Bul. 373.
 improvement, Idaho Bul. 238.
 injuries, Fla. Bul. 336.
 lima, bush varieties, Ill. Bul. 461.
 pinto, improvement, N. Mex. Bul. 270.
 pinto, riboflavin and vitamin B₆ content, effect of cooking, N. Mex. Bul. 268.
 red seed coat color, genetic analysis, Calif. Hilgardia, vol. 12, no. 9.
Beauregard Parish, economic utilization of land resources, La. Bul. 322.
Beef, baby. *See* Baby beef.
Beef cattle. *See* Cattle, beef.
Bees—
 two-queen hive, and honey production, Wyo. Bul. 239.
 wintering, Wyo. Bul. 238.
 wintering in cellar, Wyo. Bul. 234.
Beet leafhopper, and curly top, Calif. Hilgardia, vol. 12, no. 8.
Beets, sugar. *See* Sugar beets.
Benzol—
 fumigation of tobacco seedbeds for blue mold, Va. Bul. 324.
 vapor treatment, downy mildew of tobacco, Fla. Bul. 330.
Berckmans blight, arborvitae, Oreg. Bul. 382.
Berries, markets and prices, N. H. Bul. 321.
Beta anhydride lactose crystals in sandy ice cream, Mo. Res. Bul. 302.
Beta vulgaris, morphology of the end walls in differentiating vessels, Calif. Hilgardia, vol. 13, no. 5.
Big Horn River, salinity conditions, Wyo. Bul. 240.
Bindweed—
 European, chemical control, Iowa Res. Bul. 259.
 European, control, and root reserves, Iowa Res. Bul. 254.
Birds, coccidiosis, Mo. Bul. 411.
Birds. *See also* Grouse; Owls; Pheasants; Pigeons; Quail; Warblers.
Bitter pit of apple, in orchard and storage, Vt. Bul. 467.
Black disease, sheep, Oreg. Bul. 360.

- Black kernel disease of rice, Tex. Bul. 584.
 Black River settlement, socio-economic resources, and population studies, La. Bul. 319.
 Black root of sugar beets, Wash. Bul. 379.
 Black scale, parasites, in Africa, Calif. Hilgardia vol. 13, no. 7.
 Blackberries, varieties and hybrids, Ky. Bul. 396.
 Blackfire of tobacco, Ky. Bul. 399.
 Blackland region, cotton root rot control, Tex. Bul. 573.
Blatta orientalis, Ind. Bul. 451.
Blattella germanica, Ind. Bul. 451.
 Blister beetles, control, S. Dak. Bul. 340.
 Blood—
 in hemorrhagic anemia, Minn. Tech. Bul. 139.
 precursors of milk protein, Mo. Res. Bul. 296.
 Blue mold, tobacco, Conn. (State) Bul. 433; Fla. Bul. 330, 342; Va. Bul. 324.
 Blueberries, culture, Mass. Bul. 358.
 Bluegrass sod, wireworms in, Ky. Bul. 392.
 Bluestem pastures, deferred grazing, Kans. Bul. 291.
 Bobwhite populations, and woodland management, Tex. Bul. 592.
 Bollweevil, calcium arsenate in control, La. Bul. 323.
Bonasa umbellus umbellus, Mich. Tech. Bul. 166.
 Bone—
 filter, removing fluorine from drinking water, Ariz. Tech. Bul. 81.
 ground, analyses and inspection, N. J. Bul. 662.
 meal, in the dairy ration, Pa. Bul. 395.
 Bones—
 experimental animals, composition, W. Va. Bul. 294.
 growth in Cornish fowl embryos, Conn. (Storrs) Bul. 233.
 growth in Creeper embryos, Conn. (Storrs) Bul. 232.
 Boone County, soil survey, Ill. Soil Rpt. 65.
 Boron deficiency—
 cabbage family, plants of, Maine Bul. 402.
 citrus, Fla. Bul. 335.
 Bovine mastitis. *See* Mastitis.
 Boys—
 and girls' clubs, effect on capability and personality quality, Ill. Bul. 451.
 high and post high school, records, Pa. Bul. 374.
 Bread—
 and rolls, cost of home and commercially produced, compared, Nebr. Res. Bul. 115.
 white and whole wheat, making with hard wheat flour, and types of yeast, Wyo. Bul. 242.
 Breastbones of turkeys, effect of roosting, Wyo. Bul. 232.
 Broccoli, boron deficiency, Maine Bul. 402.
 Broiler industry, economic study, Ind. Bul. 441.
 Broilers—
 costs, profits, prices, Ind. Bul. 441.
 Leghorn, from cockerels, Oreg. Bul. 386.
 production, feeding and marketing, Miss. Bul. 335.
 Bronchitis, infectious, chickens, R. I. Bul. 273.
 Bronchopneumonia, enzootic, dairy calves, Fla. Bul. 346.
 Brown elm scale, description and control, Okla. Bul. 245.
 Brown Swiss cows. *See* Cows, Brown Swiss.
Brucella—
 protein nucleates of, biological properties, Mich. Tech. Bul. 168.
 protein nucleates of, chemical constitution, Mich. Tech. Bul. 168.
 Brucellosis, farm animals, Minn. Bul. 348.
 Buildings, farm, in relation to farm management, Ind. Bul. 435.
 Bunt—
 control by disinfectants, Oreg. Bul. 363.
 effect on wheat, Nebr. Res. Bul. 110.
 Burlington, grocery stores, price variations, Vt. Bul. 466.
 Business—
 analysis, farms in Utah County, Utah Bul. 289.
 farm, analysis, peanut-cotton-hog area, Va. Tech. Bul. 67.
 Butter—
 bacteria, effect of reworking, Iowa Res. Bul. 263.
 bacteriology of, Iowa Res. Bul. 263, 267.
 cultures, slow acid production by, Iowa Res. Bul. 256.
 diacetyl and other alpha-dicarbonyl compounds, effect on flavor, Iowa Res. Bul. 268.
 effect of temperature on score value and physical structure of, Mo. Bul. 408.
 flavor, and diacetyl and other alpha-dicarbonyl compounds, Iowa Res. Bul. 268.
 flavor and texture, effect of feeds, Miss. Tech. Bul. 25.
 from vacuum-pasteurized and vat-pasteurized creams, Iowa Res. Bul. 284.
 keeping quality, incubation tests, N. Y. (Cornell) Bul. 739.
 marketing, post-war developments, Iowa Res. Bul. 250.
 milk fat constants, flavor and texture, effects of feeds, Miss. Tech. Bul. 25.
 moisture and fat in, method of control, Oreg. Bul. 376.
 oxidation defects, chemistry of, Minn. Tech. Bul. 134.
 putrid defect, and *Achromobacter putrefaciens*, Iowa Res. Bul. 267.
 starter preparation, Oreg. Bul. 379.
 vacuum pasteurization of cream for, Iowa Res. Bul. 284; Oreg. Bul. 368.

- Butterfat, procurement by creameries, Iowa Res. Bul. 265.
- Buttermilk—
cultured, standardizing acidity in manufacture, Mo. Res. Bul. 319.
starter preparation, Oreg. Bul. 379.
- "Buttons", in J. H. Hale peach, cause of, Ill. Bul. 458.
- Cabbage—
boron deficiency, Maine Bul. 402.
early, experiments, R. I. Bul. 272.
family, plants of, boron deficiency, Maine Bul. 402.
fertilizer experiments, R. I. Bul. 272.
fertilizing, in rotation, Ill. Bul. 464.
vitamin content, effect of storage, Mont. Bul. 379.
worm, nonarsenical dusts in control, N. Y. State Bul. 695.
yellows-resistant varieties, N. Y. State Bul. 689.
- Cacoeia fumiferana*, Minn. Tech. Bul. 142.
- Cake—
sponge, baking at different altitudes, Colo. Tech. Bul. 27.
use of lard and fats in, Iowa Res. Bul. 255.
- Calcium—
content of foliage of forest trees, N. Y. (Cornell) Mem. 228.
deficiency, tobacco, Conn. (State) Bul. 422.
in nutrition of calves, Kans. Tech. Bul. 51.
ion, in determination of phosphate deficiency, Calif. Hilgardia, vol. 12 no. 5.
use in canning whole tomatoes, N. Y. State Tech. Bul. 252.
- Calves—
beef, effect of breeding on performance, Miss. Bul. 347.
beef, tankage for fattening, S. Dak. Bul. 329.
calcium in nutrition, Kans. Tech. Bul. 51.
dairy, enzootic bronchopneumonia, Fla. Bul. 346.
production of creep-fed, feeder, and lot-fattening, relative merits, W. Va. Bul. 295.
- Calving, fall versus spring, Miss. Bul. 328.
- Canker, stone fruit, Calif. Hilgardia, vol. 12, no. 4.
- Canned peas, vitamin content, Mont. Bul. 381.
- Canned sauerkraut, chemical composition, and quality, N. Y. State Bul. 693.
- Canned string beans, vitamin content, Mont. Bul. 373.
- Canned tomatoes, grade, quality and price, retail, Ind. Bul. 438.
- Canned vegetables, production and purchase, relative economy, Vt. Bul. 449.
- Canning—
association, marketing fruits and vegetables through, Oreg. Bul. 377.
tomatoes, commercial, use of calcium in, N. Y. State Tech. Bul. 252.
- Cantaloups, precooling tests, Ind. Bul. 439.
- Capons, production, Iowa Bul. P16; S. Dak. Bul. 335.
- Carbohydrate metabolism, wheat plant, Kans. Tech. Bul. 47.
- Carbohydrate reserves of asparagus crowns, effect of fertilizers, S. C. Bul. 321.
- Carbohydrates—
determination in plant materials, Mo. Res. Bul. 314.
of aquatic plants, Minn. Tech. Bul. 136.
- Carbon, organic of soils, effect of cropping systems and fertilizers on, Kans. Tech. Bul. 45.
- Carotene—
content, Oklahoma feeds, Okla. Bul. 242.
content, silage and green crops, N. J. Bul. 683.
in feeding of chickens, Tex. Bul. 583.
- Carotenoid pigments, metabolism by hen, Kans. Tech. Bul. 46.
- Carotenoids, separation and quantitative determination, Kans. Tech. Bul. 46.
- Carpel, *Amygdalus communis*, histogenesis, Calif. Hilgardia, vol. 13, no. 5.
- Carpocapsa pomonella*, Ark. Bul. 382; Pa. Bul. 376; Va. Bul. 320.
- Carroll County, marketing woodland products, N. H. Bul. 318.
- Carrots, anatomy of fleshy storage organ, Calif. Hilgardia, vol. 13, no. 5.
- Carts, rubber tired, S. Dak. Bul. 333.
- Cass County, soils, Tex. Bul. 581.
- Caterpillars, on tomatoes, Calif. Bul. 614.
- Cattle—
beef, baby beef enterprise, Iowa Res. Bul. 272.
beef, breeding, effect on performance of calves, Miss. Bul. 347.
beef, feeding investigations, Okla. Bul. 237.
beef, feeding molasses, experiments, Hawaii Bul. 85.
beef, feeding trials, Hawaii Bul. 85.
beef, pasture improvement on rice lands, La. Bul. 305.
beef, prices, Ind. Bul. 445.
beef, production in southwestern Minnesota, farm organization for, Minn. Tech. Bul. 138.
breeding, inbreeding and outbreeding for high milk and fat production, N. J. Bul. 667.
breeding. *See also* Artificial insemination.
dairy, breeding, reproductive efficiency, Ky. Bul. 402.
dairy, feeding, roughage, Wyo. Bul. 237.

Cattle—Continued.

dairy, feeding value, alfalfa hay, mixed hay and grass silage, compared, Wash. Bul. 386.

dairy, irrigated pastures for, Oreg. Bul. 366.

dairy, judging, Miss. Bul. 344.

dairy, reproductive efficiency, Ky. Bul. 402.

dairy. *See also* Calves; Cows; Heifers. feeding fattening rations, Ariz. Bul. 170. feeding stuffs, utilization, Pa. Bul. 391. feeding vitamin A supplement, Mass. Bul. 357.

Holstein-Friesian, inbreeding and outbreeding, for milk and fat production, N. J. Bul. 667.

income from, Colo. Bul. 460.

phosphorus deficiency, Pa. Bul. 371.

production, possibilities of income from, Colo. Bul. 460.

See also Baby beef; Calves; Cows; Heifers; Steers.

Cauliflower—

boron deficiency, Maine Bul. 402.

cabbage worm on, nonarsenical dusts for, N. Y. State Bul. 695.

market quality and price received, N. Y. (Cornell) Bul. 716.

Celery—

production and marketing, N. Y. (Cornell) Bul. 715.

production, fertility program, Fla. Bul. 333.

Centaurea repens, N. Dak. Bul. 292.

Cephalosporium elm wilt, infection experiments and control, Mass. Bul. 368.

Ceratophyllum, nature of the carbohydrates of, Minn. Tech. Bul. 136.

Ceratostomella ulmi, N. Y. (Cornell) Bul. 740.

Cereal grains, feeding turkeys, S. Dak. Bul. 330.

Cerelose, replacing cane sugar in ice cream mix, Mo. Res. Bul. 323.

Chautauqua County, land utilization, N. Y. (Cornell) Bul. 720.

Cheese—

bacteriology, Iowa Res. Bul. 264, 283.

blue (Roquefort type), defects, Iowa Res. Bul. 283.

cottage, standardizing acidity in manufacture, Mo. Res. Bul. 319.

industry, Minnesota, Minn. Bul. 346.

Limburger, from pasteurized milk, N. Y. State Tech. Bul. 253.

marketing, post-war developments, Iowa Res. Bul. 261.

processed, making, Wis. Res. Bul. 137.

Roquefort type, defects, Iowa Res. Bul. 283.

starter preparation, Oreg. Bul. 379.

Swiss-type, ripening, from pasteurized milk, Iowa Res. Bul. 264.

Chemical elements, important in human nutrition, absorption by food plants, Mass. Bul. 374.

Cherries—

bacterial canker, Calif. Hilgardia, vol. 12, no. 4.

varieties, Ky. Bul. 394.

Chick embryo, bones, size of body and organs, Conn. (Storrs) Bul. 232, 233.

Chickens—

bones, faulty formation, Okla. Bul. 243.

coccidiosis, Mo. Bul. 411.

feed energy utilization, Tex. Bul. 571.

feeds, metabolizable energy, Tex. Bul. 589.

infectious bronchitis, R. I. Bul. 273.

marketing, Del. Bul. 218.

perosis, cause and prevention, Okla. Bul. 243.

protein requirements at various stages of growth and development, N. H. Bul. 312.

vaccination against fowl pox, Ill. Bul. 470.

vitamin A requirements when fed as carotene, Tex. Bul. 583.

Chicks—

body weight and feather growth, effect of wheat bran and shorts, Nebr. Res. Bul. 119.

effect of peanut meal in laying mash for pullets, N. C. Bul. 326.

experimental inoculation, fowl paralysis, Mo. Res. Bul. 304.

feather growth, effect of wheat bran and shorts, Nebr. Res. Bul. 119.

feeding alfalfa meal, Nebr. Res. Bul. 116.

feeding corn and karo, compared, Nebr. Res. Bul. 109.

feeding protein feeds, value, Tex. Bul. 569, 588.

feeding Sudan grass meal, Nebr. Res. Bul. 116.

growth, effect of protein level of the ration, Nebr. Res. Bul. 108.

nitrogen of urea, utilization by, Nebr. Res. Bul. 120.

nutritional encephalomalacia in, Conn. (Storrs) Bul. 229.

protein feeds, Tex. Bul. 569, 588.

transmission of and resistance to fowl paralysis, Idaho Bul. 235.

utilization of food elements, Nebr. Res. Bul. 108, 109, 116, 120.

Children—

behavior and guidance, narrative and film records, N. Y. (Cornell) Mem. 226.

dependent, survey, S. Dak. Bul. 332.

farm, small-town, and city, personality development, Nebr. Res. Bul. 114.

food habits and physical condition, Maine Bul. 401.

school, body measurements, Tex. Bul. 567.

Chlorosis, causes and control, N. Mex. Bul. 261.

Cholesterol fed rabbits, atherosclerosis in, effect of kelp, Mass. Bul. 374.

Churches, rural, Mo. Res. Bul. 307.

Citrus—

- exchange system, Florida, Fla. Bul. 339.
 - groves, soils, chemical studies, Fla. Bul. 340.
 - malnutrition, symptoms, Fla. Bul. 335.
 - melanose, commercial control, Fla. Bul. 349.
 - nutrition, and nitrate concentration and ion balance, Calif. Hilgardia, vol. 13, no. 4.
 - orchards, heating, La. Bul. 312.
 - scab, Bordeaux, sulfur, mercury, and copper sprays in control, Fla. Bul. 337.
 - scab, commercial control, Fla. Bul. 337.
 - tissues, recovery of hydrocyanic acid from, Calif. Hilgardia, vol. 12, no. 7.
- See also Grapefruit; Oranges.

Cladosporium fulvum, Mass. Bul. 361.

Claiborne Parish, farm management survey, La. Bul. 317.

Cloquet district, timber farming, Minn. Bul. 343.

Clostridium perfringens (Type D), Oreg. Bul. 367.

Clothing—

- consumer demand, Mo. Res. Bul. 300.
- consumption, village, farm families, Vt. Bul. 451.

Clover—

- bur, as winter crop, Miss. Bul. 345.
- white, variability, and pasture improvement, N. J. Bul. 676.
- winter pastures, management, Fla. Bul. 351.

Coal-mining population, sickness and medical care, Ark. Bul. 394.

Coastal Plain area, marketing cotton, N. C. Bul. 325.

Coccidiosis, chickens, and other birds, Mo. Bul. 411.

Coccophagus spp., on black scale, Calif. Hilgardia, vol. 13, no. 7.

Cockerels, Leghorn, broilers from, Oreg. Bul. 386.

Cockroaches, biology, Ind. Bul. 451.

Coconut oil meal, feeding pigs, Ohio Bul. 607.

Cod-liver oil, fortified, value in production of market hogs, N. J. Bul. 661.

Codling moth—

- baits and bait traps, Va. Bul. 320.
- spraying materials and schedules, Pa. Bul. 376.
- timing seasonal occurrence and abundance, Ark. Bul. 382.

Cold storage. See Storage, cold.

Colebrook area, farm organization and farm management, N. H. Bul. 322.

Colias eurytheme, La. Bul. 323.

Collinus virginianus virginianus, Tex. Bul. 592.

Colloidal systems, migration of iron and manganese in, Ill. Bul. 472.

Color—

- of milk, measurement, N. J. Bul. 671.
- photography in soil studies, Colo. Tech. Bul. 26.

Colts, production and management, Iowa Bul. P1.

Columbia Basin, wheat farms, land use and production costs, Oreg. Bul. 373.

Combine-harvester, economic study, Ind. Bul. 436.

Communities, town-country, Lansing region, Mich. Spec. Bul. 302.

Community—

- of central Pennsylvania, social and economic study, Pa. Bul. 388.
- organization, Washington and Frederick Counties, Md. Bul. 437.

Concrete, reinforcement, looped wire, Colo. Bul. 452.

Coniferous forests, plantings, Pa. Bul. 394.

Coniferous tree seed testing, germination and quality, N. Y. State Tech. Bul. 255.

Connecticut (State) agricultural experiment station, report, Conn. (State) Bul. 421, 438.

Connecticut State entomologist, report, Conn. (State) Bul. 428, 434.

Conoderes auritus, Ky. Bul. 398.

Conoderes, spp., Ky. Bul. 392.

Consumer demand—

- articles of clothing, Mo. Res. Bul. 300.
- household textiles, Mo. Res. Bul. 301.

Consumer purchasing. See Purchasing.

Contour farming, Iowa Bul. P11.

Convolvulus arvensis, Iowa Res. Bul. 254, 259.

Cooked peas, vitamin content, Mont. Bul. 381.

Cooked string beans, vitamin content, Mont. Bul. 373.

Cooking—

- effect on pinto beans, N. Mex. Bul. 268.
 - quality of apples, N. Y. (Cornell) Mem. 225.
 - value, lard and fats, Iowa Res. Bul. 255, 279.
- See also Frying.

Cooperative associations—

- citrus exchange, Fla. Bul. 339.
- in South Dakota, S. Dak. Bul. 328.
- milk producers, Ky. Bul. 390.

Cooperative exchanges, amounts and cost of credit extended, Mo. Bul. 415.

Cooperative marketing. See Marketing, cooperative.

Cooperative purchasing, Wash. Bul. 371.

Cooperative purchasing and marketing associations, N. Dak. Bul. 294.

Cooperatives in South Dakota, S. Dak. Bul. 328.

Coos County, ranch organization and range land use, Oreg. Bul. 381.

Copper—

- as oxidation catalyst in butter, Minn. Tech. Bul. 134.
- deficiency, citrus, Fla. Bul. 335.
- toxicity to spore germination of *Sclerotinia fructicola*, N. Y. (Cornell) Mem. 233.

Corn—

- agricultural and industrial demand, effect of imports, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
- and kalo in chick ration, compared, Nebr. Res. Bul. 109.

Corn—Continued.

breeding, dent and flint crosses, N. Dak. Bul. 291.
 carotenoid pigments in, Kans. Tech. Bul. 46.
 crosses between dent and flint, exchange of alternative stable characters, N. Dak. Bul. 291.
 culture, Colo. Bul. 463.
 culture, experiments, Ark. Bul. 402.
 earworm, hibernation, Conn. (State) Bul. 419.
 earworm, on tomato, Calif. Bul. 644.
 field, cultural practices, Mass. Bul. 356.
 genetics and cytology, Tex. Bul. 574.
 gluten meal, feeding poultry, N. Y. (Cornell) Bul. 725.
 hybrid, adaptation trials, Wyo. Bul. 236.
 hybrids, and corn industry, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 hybrids, tests, Kans. Bul. 288; Utah Bul. 287.
 Indian, origin, Tex. Bul. 574.
 industry and corn hybrids, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 investigations, New Mexico, N. Mex. Bul. 260.
 judging, Miss. Bul. 344.
 legume interplanting, effects, Ark. Bul. 393.
 oil and germ meal, feeding pigs, Ohio Bul. 607.
 performance tests, Ill. Bul. 450, 463.
 production, Colo. Bul. 463.
 products, application of food and drug act, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 products, utilization, effect of Federal and State regulations, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 seed treatment, Ark. Bul. 389.
 silk beetle, control, La. Bul. 323.
 sirup, use in ice cream, ices, and sherbets, N. Y. State Bul. 696.
 substitutes, feeding pigs, Ohio Bul. 607.
 sugar and starch products from, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 supply and price, effect of Agricultural Adjustment Act, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 sweet, fertilizing, in rotation, Ill. Bul. 464.
 sweet, hybrids, Ill. Bul. 466; Iowa Bul. P15; N. Y. State Bul. 686.
 sweet, inbreds and crosses, Ill. Bul. 466.
 sweet, yellow hybrid, N. Y. State Bul. 686.
 use in fermentation industry, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 varietal tests, lattice experiments, Iowa Res. Bul. 281.
 varieties, Miss. Bul. 339; Utah Bul. 287.
 variety experiments, Ark. Bul. 402; Miss. Bul. 339; N. Mex. Bul. 260.
 variety tests, Ill. Bul. 450, 463; Iowa Bul. 379, P2; Kans. Bul. 288; Utah Bul. 287.

Corn—Continued.

wet-milling industry, effect of Agricultural Adjustment Act, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 wet-milling industry, effect of tapioca and sago imports, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 yield test, Iowa Bul. 379, P2.
 Cornish fowl, lethal mutations, Conn. (Storrs) Bul. 233.
 Corporate-owned land in Iowa, Iowa Res. Bul. 266.
 Corson County, rural zoning possibilities, S. Dak. Bul. 345.
Coryneum verckmani, Oreg. Bul. 382.
Coryneum blight, oriental arborvitae, Oreg. Bul. 382.
 Cost and utilization of power and labor, Iowa Res. Bul. 258.
 Cost of curing, tobacco, Ky. Bul. 406.
 Cost of distribution, milk, N. J. Bul. 663.
 Cost of marketing, potatoes, Pa. Bul. 372.
 Cost of production—
 field crops, Ill. Bul. 467.
 hops, Oreg. Bul. 364.
 milk, La. Bul. 321.
 milk, and size of cow, N. Y. (Cornell), Bul. 719.
 wheat, Oreg. Bul. 373.
 Cost of tractor power, Nebr. Bul. 324.
 Cost of transportation, milk and cream, Vt. Bul. 462.
 Cost study, family-sized farms, sugarcane area, La. Bul. 314.
 Costs—
 and returns, dairy, Mich. Spec. Bul. 297.
 and returns, in apple orchards, N. Y. (Cornell) Bul. 717.
 and returns in baby beef production, Iowa Res. Bul. 272.
 and returns in sheep production, Idaho Bul. 228.
 and returns, large sugarcane farms, La. Bul. 315.
 and returns, sugar beet production, Mich. Spec. Bul. 305.
 in broiler production, Ind. Bul. 441.
 in butterfat procurement in creameries, Iowa Res. Bul. 265.
 in dairy production, Calif. Bul. 640.
 in flax production, Calif. Bul. 641.
 in forage production, on range, Nev. Bul. 150.
 in grass silage, production, N. J. Bul. 684.
 in honey production, Oreg. Bul. 362.
 in operation of sugar mills, La. Bul. 316.
 in use of farm machinery, Ind. Bul. 437.
 of home and commercially produced bread, Nebr. Res. Bul. 115.
 Cotton—
 American-Egyptian, utilization, supplies, prices, Ariz. Bul. 167.
 area, farm organization and operation, La. Bul. 309.
 bollweevil. *See* Bollweevil.

Cotton—Continued.

- breeding, inbreeding, effect, Ark. Bul. 387.
- earliness, effect of nitrogen, phosphorus, and potassium, La. Bul. 306.
- effect of winter legumes, Miss. Bul. 345.
- farms, business analysis, Va. Tech. Bul. 67.
- farms, labor organizations, change in, Ark. Bul. 397.
- fertilizers, effect on profits, Miss. Bul. 342.
- fibers, measurements of lengths, apparatus for, Ark. Bul. 381.
- flea hopper, randomized block arrangement in control tests, La. Bul. 323.
- harvesting, mechanical, Tex. Bul. 580.
- inbreeding, effect on staple length and lint percentage, Ark. Bul. 387.
- insects, natural enemies, P. R. Bul. 39.
- judging, Miss. Bul. 344.
- marketing, Coastal Plain area, N. C. Bul. 325.
- neutral fertilizer experiments, Miss. Bul. 338.
- North Carolina, quality, N. C. Bul. 323.
- plant, and rainfall and temperature, Ark. Bul. 376.
- prices, and marketing practices, N. C. Tech. Bul. 64.
- prices and quality, N. C. Bul. 323.
- root rot, control in Blackland region, Tex. Bul. 573.
- staple length, Ark. Bul. 387; N. C. Bul. 323.
- variety tests, Ga. Bul. 204.
- Cottonseed meal—
- and cake, finishing steers on pasture, Miss. Bul. 329.
- fattening yearling steers, N. Mex. Bul. 262.
- feeding lambs, N. Mex. Bul. 272.
- feeding poultry, Tex. Bul. 569.
- iodine in, Tex. Bul. 595.
- Counties, receipts and expenditures, N. Y. (Cornell) Bul. 729.
- Country communities, Lansing region, Mich. Spec. Bul. 302.
- Cover crops, orchards, N. Y. State Bul. 691.
- Cow manure. *See* Manure.

Cows—

- Brown Swiss, composition of milk, Ill. Bul. 457.
- calving, fall vs. spring, Miss. Bul. 328.
- dairy, artificial insemination, Mo. Bul. 407.
- dairy breeds, composition of milk, Ill. Bul. 457.
- dairy, feeding alfalfa hay, with concentrates, Oreg. Bul. 380.
- dairy, feeding soybeans as source of fat, N. Y. (Cornell) Bul. 722.
- dairy, feeding timothy and alfalfa hays, Va. Tech. Bul. 65.
- dairy, milk yield and composition, effect of thyroxine, Mo. Res. Bul. 317.

Cows—Continued.

- effect of fasting and refeeding on milk production, heat production and respiratory quotient, Mo. Res. Bul. 295.
- feeding bone meal, timothy hay, corn silage and concentrates, Pa. Bul. 395.
- feeding cull apples, Va. Bul. 326.
- feeding hay, artificially dried, Vt. Bul. 446.
- Guernsey, feeding, effect on color and flavor of milk, N. J. Bul. 675.
- heat production, effect of fasting and refeeding, Mo. Res. Bul. 295.
- milk production, effect of fasting and refeeding, Mo. Res. Bul. 295.
- size, and cost of production of milk, N. Y. (Cornell) Bul. 719.
- See also* Calves; Cattle; Heifers.
- Crabapples, new varieties, S. Dak. Bul. 339.
- Crambus* spp., Ky. Bul. 391.
- Cranberries, growing, Mass. Bul. 371.
- Cranberry bogs, preparation and management, Mass. Bul. 371.
- Cranberry rootworm, as apple pest, N. Y. State Bul. 692.
- Cream—
- neutralized, method for detection, Conn. (Storrs) Bul. 234.
- pasteurization, vacuum, for butter, Oreg. Bul. 368.
- vacuum- and vat-pasteurized, butter from, Iowa Res. Bul. 284.
- Creameries, butterfat procurement, Iowa Res. Bul. 265.
- Creamery industry, Minnesota, Minn. Bul. 346.
- Credit—
- agricultural. *See* Agricultural credit.
- installment credit, washing machines, N. Y. (Cornell) Bul. 743.
- Creeper fowl, size of body, organs, and bones of embryos, Conn. (Storrs) Bul. 232.
- Crickets, Mormon, sodium arsenite in control, Mont. Bul. 370.
- Crop nutrition, control by foliar diagnosis, Pa. Bul. 378.
- Crop production—
- costs, Ill. Bul. 467.
- fertilizer response and requirements, Yazoo-Mississippi Delta, Miss. Bul. 333.
- Crop yield tests and land valuation, Iowa Res. Bul. 252.
- Crop yields, and depth of plowing, S. Dak. Bul. 344.
- Cropping—
- effect on desert soils, N. Mex. Bul. 263.
- effect on soils, and water losses, Ark. Bul. 380.
- systems, effect on nitrogen and organic carbon of soils, Kans. Tech. Bul. 45.
- Crops—
- judging, Miss. Bul. 344.
- See also* Cover crops; Field crops; Forage crops.
- Crown rust of oats, Ark. Bul. 391.

- Cryolite, as insecticide, La. Bul. 323.
- Cryptolaemus montrouzieri*, in control of mealybugs, Mass. Bul. 375.
- Cucumbers—
 fertilizing, in rotation, Ill. Bul. 464.
 storage period, lengthening, Tex. Bul. 576.
 water absorption, effect of root temperature, Mo. Res. Bul. 309.
- Cucurbita pepo*, morphology of the end walls in differentiating vessels, Calif. Hilgardia, vol. 13, no. 5.
- Culinary quality, and value. *See* Cooking.
- Cumberland County, soil survey, Ill. Soil Rpt. 69.
- Curly top, and beet leafhopper, Calif. Hilgardia, vol. 12, no. 8.
- Curry County, ranch organization and range land use, Oreg. Bul. 381.
- Curvularia lunata*, Tex. Bul. 584.
- Cuttings, rooting, effect of hormodin A, Iowa Res. Bul. 280.
- Cylas formicarius*, La. Bul. 323.
- Dairy enterprise, economic study, Iowa Res. Bul. 278.
- Dairy farms—
 economic study, Kentwood area, La. Bul. 325.
 electric water heaters for, Ind. Bul. 447.
 organization and management, Maine Bul. 398.
- Dairy-hog farms, organization and management, Iowa Res. Bul. 275.
- Dairy industry, Minnesota, Minn. Bul. 346.
- Dairy judging, Miss. Bul. 344.
- Dairy management, in California, Calif. Bul. 640.
- Dairy, management, profitable, Mich. Spec. Bul. 297.
- Dairy ration, soybeans as source of fat, N. Y. (Cornell) Bul. 722.
- Dairying—
 in Mississippi agriculture, Miss. Bul. 343.
 management, Calif. Bul. 640; Mich. Spec. Bul. 297.
 See also Milk production.
- Data, analyzing for relationships, N. Y. (Cornell) Mem. 231.
- Datana integerrima*, Mo. Bul. 418.
- Daucus carota*—
 anatomy of fleshy storage organ, Calif. Hilgardia, vol. 13, no. 5.
 morphology of the end walls in differentiating vessels, Calif. Hilgardia, vol. 13, no. 5.
- Deer Creek township, Cass County, farming units and land management, Ind. Bul. 450.
- Deficiency diseases, enzymic efficiency in, Ark. Bul. 373.
- Dehydration, macadamia, Hawaii Bul. 83.
- Delaware agricultural experiment station, report, Del. Bul. 220, 227.
- Delta area, drainage and irrigation, soils, economic and social conditions, Utah Bul. 288.
- Dependent children, S. Dak. Bul. 332.
- Desert soils. *See* Soils, desert.
- De Soto Parish, farm management survey, La. Bul. 317.
- Desserts, frozen, dextrose and corn sirup for, N. Y. State Bul. 696.
- Dewitt County, soil survey, Ill. Soil Rpt. 67.
- Dextrose—
 in ice cream manufacture, Ill. Bul. 452.
 replacing cane sugar in ice cream mix, Mo. Res. Bul. 323.
 use in ice cream, ices, and sherbets, N. Y. State Bul. 696.
 utilization, effect of food laws, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
- Diacyl, and flavor in butter, Iowa Res. Bul. 268.
- Diaporthe citri*, Fla. Bul. 349.
- Diatraea saccharalis*, La. Bul. 323.
- Dickens County, soils, Tex. Bul. 581.
- Diesel tractor engines, Wash. Pop. Bul. 156.
- Diet, farm families, S. C. Bul. 319.
- Digestibility of ground prunes, winery pomace, avocado meal, asparagus butts, and fennugreek meal, Calif. Bul. 635.
- Diplodia zaeae*, an inhibitor produced by, Iowa Res. Bul. 274.
- Disinfectants, in control of stinking smut of wheat, Oreg. Bul. 363.
- Distillery slop, feeding pigs, Ky. Bul. 408.
- Distilling and brewing byproducts, feeding pigs, Ohio Bul. 607.
- Downy mildew. *See* Mildew, downy.
- Drainage, and growth of sweetclover, laboratory study, Minn. Tech. Bul. 144.
- Dried-prune packing associations, marketing prunes through, Oreg. Bul. 378.
- Drought farmer, adjustment to West, Wash. Bul. 378.
- Drug products, analyses and inspection, Conn. (State) Bul. 426, 437.
- Dry farming investigations, at Mosquero experiment field, N. Mex. Bul. 265.
- Dry land wheat farms, land utilization and production costs, Oreg. Bul. 373.
- Ducks, Khek-Campbell egg type, management, N. J. Bul. 685.
- Duct growth factor of mammogenic hormones, Mo. Res. Bul. 310.
- Dusting—
 and spraying, potato insects, N. Mex. Bul. 266.
 equipment, for pea weevil control, Idaho Bul. 234.
 non-arsenical dusts, for cabbage and cauliflower worm, N. Y. State Bul. 695.
- Dutch elm disease pathogen, and elm bark beetle, N. Y. (Cornell) Bul. 740.
- Dye reduction, and gases in milk, Vt. Bul. 461.
- Dyes, azo, effect of position isomerism on fastness to light and washing, Ohio Bul. 601.
- Easter lilies, culture and forcing, Mass. Bul. 376.

- Ecological factors and the cotton plant, Ark. Bul. 376.
- Economist, contribution to theory of land classification, Mo. Bul. 421.
- Education—
in transition, S. Dak. Bul. 338.
of relief population, Colo. Bul. 457.
- Educational agencies, rural, Mo. Res. Bul. 307.
- Educational foundations for rural rehabilitation, Colo. Bul. 457.
- Edward County, range vegetation analyses, Tex. Bul. 586.
- Egg cooler, home-made, Okla. Bul. 240.
- Eggs—
hatchery, Md. Bul. 426.
market, economic analysis, Md. Bul. 430.
marketing, Del. Bul. 218.
production and hatchability, effect of peanut meal feeding, N. C. Bul. 326.
quality, effect of high humidity, N. J. Bul. 682.
storage, mold on, Mich. Tech. Bul. 174.
yolk, and feeds, carotenoid pigments of, relationships, Kans. Tech. Bul. 46.
- Eggshell, effect of manganese on, Ark. Bul. 374.
- Eimeria* spp., Mo. Bul. 411.
- Eincorn, mutants, and linkage studies, Mo. Res. Bul. 298.
- Electric devices for pasteurizing soils, N. Y. (Cornell) Bul. 731.
- Electric milk refrigeration, Pa. Bul. 375.
- Electric motors, for farm, Iowa Bul. P13.
- Electric roasters—
performance, Iowa Res. Bul. 282.
study, Va. Bul. 325.
- Electric water heaters, Ind. Bul. 447.
- Electrical resistance method of measuring soil moisture, Mich. Tech. Bul. 172.
- Electricity—
definition of terms, Wash. Pop. Bul. 157.
wiring methods, Wash. Pop. Bul. 157.
- Electrification, farm, in Idaho, Idaho Bul. 237.
- Elements—
chemical, in human nutrition, Mass. Bul. 374.
of life, Tenn. Pop. Bul. 1.
- Elm bark beetle—
carrying Dutch elm disease pathogen, N. Y. (Cornell) Bul. 740.
history and habits, Conn. (State) Bul. 420.
- Elm scale, brown, Okla. Bul. 245.
- Elms, *Cephalosporium* wilt on, Mass. Bul. 368.
- Elodea*—
nature of the carbohydrates of, Minn. Tech. Bul. 136.
nutritive value and chemical composition, Minn. Tech. Bul. 136.
- Elodea canadensis*, nitrogen distribution of, Minn. Tech. Bul. 136.
- Eloy district, groundwater supply, Ariz. Tech. Bul. 87.
- Embryo—
Cornish lethal, growth of bones, weight of body and organs, Conn. (Storrs) Bul. 233.
Creeper fowl, size of body, organs and bones, Conn. (Storrs) Bul. 232.
- Encarsia formosa*, as parasite of white fly, Mich. Tech. Bul. 173.
- Ence; hilomalacia, nutritional, in chicks, Conn. (Storrs) Bul. 229.
- Encephalomyelitis, equine, virus isolated from *Triatoma sanguisuga*, Kans. Tech. Bul. 50.
- Endive, yellows disease, N. Y. (Cornell) Bul. 742.
- Engines, diesel, tractor, operation, Wash. Pop. Bul. 156.
- Enteritis, necrotic, in swine, and nutrition, Mich. Tech. Bul. 170.
- Enterotoxemia, infectious, in lambs, Oreg. Bul. 367.
- Entomological progress, La. Bul. 323.
- Entomologist—
Connecticut State, report, Conn. State Bul. 428, 434.
Montana, report, Mont. Bul. 366, 384.
- Enzootic bronchopneumonia, dairy calves, Fla. Bul. 346.
- Enzymes—
hydrolytic, in activated sludge, N. J. Bul. 669.
of digestive systems of man and animals, effect of iodine, Mass. Bul. 374.
of milk, effect of iodine, Mass. Bul. 374.
- Enzymic efficiency in deficiency diseases, Ark. Bul. 373.
- Epicauda* spp., S. Dak. Bul. 340.
- Epilachna varivestis*, La. Bul. 323; S. C. Bul. 322.
- Epithelioma, immunization against, Ill. Bul. 470.
- Epitrix cucumeris*, Nebr. Bul. 327.
- Equine encephalomyelitis virus isolated from *Triatoma sanguisuga*, Kans. Tech. Bul. 50.
- Erosion. See Soil erosion.
- Ervinia carotovora*, Fla. Bul. 348.
- Ethylene gas, defoliation of rose plants at digging time, Oreg. Bul. 385.
- Ethylene glycol ether of pinene, in fly sprays, Del. Bul. 217.
- Euthicola rugiceps*, La. Bul. 323.
- European bindweed. See Bindweed.
- European red mite—
dormant spray, Pa. Bul. 376.
spraying, Pa. Bul. 390.
- Eutettix tenellus*, Calif. Hilgardia, vol. 12, no. 8.
- Evaporation and precipitation, N. Mex. Bul. 269.
- Everglades—
celery production, organic soils, Fla. Bul. 333.
grass crops, Fla. Bul. 338.

- Ewe lambs, feeding first winter, effects, Utah Bul. 292.
- Ewes, purebred mutton rams on, and changes in meat and wool characteristics, N. C. Tech. Bul. 60.
- Expenditures, village families, Vt. Bul. 450.
- Falls Cities cooperative milk producers' association, Ky. Bul. 390.
- Falls County, soils, Tex. Bul. 581.
- Families—
- clerical workers and wage earners, economic status, Mo. Res. Bul. 318.
 - clothing consumption, Vt. Bul. 451.
 - farm, diet, S. C. Bul. 319.
 - farm, socioeconomic status, scale for measurement, Okla. Tech. Bul. 9.
 - improvement of economic status by farm woman, Miss. Bul. 346.
 - living conditions in Delta area, Utah Bul. 288.
 - relief, composition and characteristics, S. C. Bul. 326.
 - rural, composition, N. Y. (Cornell) Bul. 713.
 - village, housing, Vt. Bul. 469.
 - village, incomes and expenditures, Vt. Bul. 450.
- Family living, and farm income, Ky. Bul. 405.
- Farm adjustments—
- in Montana, study of area IV, Mont. Bul. 377.
 - in Montana, study of area VII, Mont. Bul. 367.
- Farm buildings, in relation to farm management, Ind. Bul. 435.
- Farm business, peanut-cotton-hog area, analysis, Va. Tech. Bul. 67.
- Farm credit. *See* Agricultural credit.
- Farm foreclosures. *See* Mortgages, farm foreclosures.
- Farm lands, effect of flood deposits, Vt. Bul. 445.
- Farm layout, planning, Minn. Bul. 350.
- Farm loans, factors affecting success, Ill. Bul. 468.
- Farm machinery, cost of using, Ind. Bul. 437.
- Farm management—
- adjusting to changing economic conditions, R. I. Bul. 274.
 - and farm buildings, Ind. Bul. 435.
 - and land classification, Mo. Bul. 421.
 - central Pennsylvania, Pa. Bul. 379.
 - Colebrook area, N. H. Bul. 322.
 - dairy and cash crop farms, Maine Bul. 398.
 - dairy-hog farms, Iowa Res. Bul. 275.
 - flue-cured tobacco farms, Va. Tech. Bul. 64.
 - study, family-sized farms, sugarcane area, La. Bul. 314.
 - survey, Rapides, Union, Claiborne, and DeSoto Parishes, La. Bul. 317.
 - under varying price conditions, Ind. Bul. 452.
 - upland cotton area, La. Bul. 309.
- See also* Farm organization.
- Farm mechanics, Miss. Bul. 337.
- Farm mortgages. *See* Mortgages.
- Farm operation, High Plains cotton area, Tex. Bul. 568.
- Farm organization—
- and beef cattle production, Minn. Tech. Bul. 138.
 - and types of farms, Utah Bul. 285.
 - Colebrook area, N. H. Bul. 322.
 - dairy and cash crop farms, Maine Bul. 398.
 - High Plains cotton area, Tex. Bul. 568.
 - sweetpotato and general farms, Miss. Bul. 352.
 - upland cotton area, La. Bul. 309.
 - wheat area farms, S. Dak. Bul. 343.
- See also* Farm management.
- Farm population. *See* Population.
- Farm practices, in central Pennsylvania, Pa. Bul. 379.
- Farm prices. *See* Prices.
- Farm products. *See* Agricultural products.
- Farm supplies, cooperative, purchasing, W. Va. Bul. 297.
- Farm tenancy. *See* Tenancy, farm.
- Farm units—
- character of, and land management, Ind. Bul. 450.
 - productivity and ability to pay rent, Mo. Res. Bul. 308.
- Farm women. *See* Women on farms.
- Farmers—
- attitudes toward cooperative marketing, Ohio Bul. 606.
 - cooperative associations, credit extended by, Mo. Bul. 415.
 - cooperative associations in Florida, Fla. Bul. 339.
 - cooperative marketing and purchasing associations, N. Dak. Bul. 294.
 - drought, adjustment to West, Wash. Bul. 378.
 - importance of seasonal market variations to, Iowa Bul. P5.
 - milk market, Ohio Bul. 614.
 - part-time, social characteristics, Wash. Bul. 380.
- Farming—
- areas, area IV, study, Mont. Bul. 377.
 - areas, area VII, study, Mont. Bul. 367.
 - areas, type. *See* Type of farming areas.
 - by out-of-school rural youth, Pa. Bul. 385.
 - conditions, Toombs County, Ga. Bul. 202.
 - contour, for soil and water conservation, Iowa Bul. P11.
 - economic study, New York, Tompkins County, N. Y. (Cornell) Bul. 728.
 - flue-cured tobacco, economics of, Va. Tech. Bul. 66.
 - in Sandy Creek soil conservation area, Ga. Bul. 203.
 - possibilities in Horry County, S. C. Bul. 318.
 - profitable, and soil fertility maintenance, Ohio Bul. 604.

Farming—Continued.

- systems and practices, and soil conservation and farm income in the wheat region, Wash. Bul. 374.
- types of. *See* Types of farming.
- units, character of, and land management, Ind. Bul. 450.
- vegetable, economic studies, N. Y. (Cornell) Bul. 715.

Farms—

- and land classes, Del. Bul. 224.
- business analysis, Utah County, Utah Bul. 289.
- cash crop, organization and management, Maine Bul. 398.
- cotton. *See* Cotton farms.
- dairy. *See* Dairy farms.
- differences and agricultural planning. Iowa Res. Bul. 260.
- leasing, Wash. Bul. 385.
- minimum sized, planning, Beadle County area, S. Dak. Bul. 341.
- minimum sized, planning, Hyde County area, S. Dak. Bul. 346.
- organization and operation, upland cotton area, La. Bul. 309.
- performance in north central South Dakota, S. Dak. Bul. 343.
- renting, landlord-tenant relationship, Mo. Bul. 409.
- sugarcane. *See* Sugarcane farms.
- sweetpotato and general, factors for success, Miss. Bul. 352.
- types, Md. Bul. 432; Tenn. Bul. 169.
- types, and agricultural production, Minn. Bul. 347, and suppl.
- types, and farm organization, Uinta Basin, Utah Bul. 285.
- types, study of area IV, Mont. Bul. 377.
- types, study of area VII, Mont. Bul. 367.
- types, West Virginia, W. Va. Bul. 292.
- wheat. *See* Wheat farms.

Fats—

- and oils, consumption in Minneapolis, Minn. Bul. 344.
- physical and chemical characteristics, and culinary value, Iowa Res. Bul. 255, 279.

Fecal bacteria, effect of added iodine in milk, Mass. Bul. 374.

Feed energy utilization, chickens, Tex. Bul. 571.

Feeding stuffs—

- analyses and inspection, Ariz. Bul. 164, 168; Conn. (State) Bul. 425, 436; N. H. Bul. 315, 327; N. J. Bul. 664, 680; Tex. Bul. 578, 594; Vt. Bul. 447, 455, 458, 468.
- Oregon, for fattening lambs, Oreg. Bul. 370.
- registrations, N. J. Bul. 664, 680.
- utilization by cattle, Pa. Bul. 391.

Feeds—

- carotene (provitamin A) content, Okla. Bul. 242.
- carotenoid pigments in, Kans. Tech. Bul. 46.

Feeds—Continued.

- chickens, metabolizable energy, Tex. Bul. 589.
- effect on butter, Miss. Tech. Bul. 25.
- phosphorus in, Wyo. Bul. 233.
- Fenugreek meal, digestibility by sheep, Calif. Bul. 635.
- Fermentation industries, use of corn in, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
- Ferns, of Kansas, Kansas [Unnumbered Pub.] 1940.
- Ferrous iron, as oxidation catalyst in butter, Minn. Tech. Bul. 134.
- Fertility needs, Missouri soils, rapid test for estimating, Mo. Bul. 404.
- Fertilizers—
 - acid vs. neutral, Miss. Bul. 338.
 - analyses and inspection, Ariz. Bul. 165, 169; Conn. (State) Bul. 430, 441; Mo. Bul. 403, 417; Mont. Bul. 376; N. H. Bul. 317, 329; N. J. Bul. 662, 674; S. C. Bul. 324, 330; Tex. Bul. 577, 593; Vt. Bul. 453, 464.
 - and crop response, Miss. Bul. 333.
 - celery, on Everglade soils, Fla. Bul. 333.
 - clover pastures, Fla. Bul. 351.
 - commercial mixtures, field experiments, Wash. Bul. 392.
 - commercial, report on, Mont. Bul. 376.
 - cost and use, Tex. Bul. 577.
 - cotton, effect on profits, Miss. Bul. 342.
 - experiments, soil experiment fields, Ky. Bul. 397.
 - grapes, Ark. Bul. 378.
 - investigation at Aberdeen branch station, Idaho Bul. 230.
 - lettuce, Ariz. Tech. Bul. 85.
 - neutral vs. acid, Miss. Bul. 338.
 - nitrogen, phosphorus and potassium, effect on earliness of cotton, La. Bul. 306.
 - nutrition studies in greenhouse, Ark. Bul. 401.
 - pastures, La. Bul. 304; Mich. Tech. Bul. 167; N. H. Bul. 320.
 - peach trees, N. C. Bul. 321, 322.
 - phosphate, availability, Ariz. Tech. Bul. 82.
 - phosphate, effect on crops, Mont. Bul. 369.
 - potatoes, Fla. Bul. 352.
 - registrations, Ariz. Bul. 165, 169; Mo. Bul. 403, 417.
 - rice, effect on stem rot, Ark. Bul. 383.
 - statistics, Tex. Bul. 572.
 - tomatoes, experiments, Pa. Bul. 393.
 - treatments, effect on asparagus, S. C. Bul. 321.
 - vegetable crops, Ill. Bul. 464.
- Fiber comber, for cotton, Ark. Bul. 381.
- Field corn. *See* Corn, field.
- Field crops—
 - experiments at Las Vegas, N. Mex. Bul. 271.
 - fertilizer experiments, commercial mixtures, Wash. Bul. 392.

Field Crops—Continued.

- management, Franklin County, N. C. Tech. Bul. 66.
 management, southeastern New York, N. Y. (Cornell) Bul. 746.
- Financial results—
 operation of large sugarcane farms, La. Bul. 315.
 operation of sugar mills, La. Bul. 316.
- Financing, farm mortgages, results, N. Y. (Cornell) Bul. 726.
- Fir, balsam, spruce budworm on, Minn. Tech. Bul. 142.
- Fire blight, susceptibility of plants, Calif. Hilgardia, vol. 12, no. 4.
- Fire protection, timber lands, financing, Oreg. Bul. 384.
- Fiscal capacity, Maryland and other States, Md. Bul. 438.
- Fiscal problems, Reynolds County, Mo. Res. Bul. 324.
- Fish meal—
 feeding poultry, Wash. Bul. 388.
 feeding turkeys, and fishy flavor of meat, Va. Bul. 321.
- Flax—
 and flax products, production costs, and prices, Calif. Bul. 641.
 management practices, Calif. Bul. 641.
 seed, production, Wash. Bul. 370.
- Flood—
 deposits, effect on farm lands, Vt. Bul. 445.
 waters, conservation, and range improvements, Mont. Bul. 380.
- Floors, wood, finishes, care, R. I. Bul. 276.
- Flora of Kansas, distribution, Kans. [Unnumbered Pub.] 1940.
- Florence County, sharecroppers and wage-laborers, S. C. Bul. 328.
- Florida citrus exchange system, Fla. Bul. 339.
- Flowering crops, greenhouse, deficiency symptoms, Ohio Bul. 611.
- Flowering plants, of Kansas, Kansas [Unnumbered Pub.] 1940.
- Flowers—
 greenhouse, gravel culture, Ohio Bul. 616.
See also Gardenias; Geranium; Gladiolus; Lilies; Narcissus; Ornamental plants; Peonies; Rhododendron; Roses; Sweet peas; Zinnias.
- Flue-cured tobacco farms, management, Va. Tech. Bul. 64.
- Fluke infestation, and necrotic hepatitis, sheep, Oreg. Bul. 360.
- Fluorine, in drinking water, bone filter for removing, Ariz. Tech. Bul. 81.
- Fly sprays, pyrethrum and rotenone, terpene ethers in, Del. Bul. 217.
- Foliar diagnosis, and control of crop nutrition, Pa. Bul. 378.
- Food—
 analyses and inspection, Conn. (State) Bul. 426, 437.
 and drug act, application to corn products, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.

Food—Continued.

- and food-borne diseases, Mass. Bul. 373.
 and public health, Mass. Bul. 373.
 bulk and packaged, prices, Vt. Bul. 448.
 cattle, minerals and nutrients in, Mass. Bul. 374.
 farm families, S. C. Bul. 319.
 freezing and storage, freezing cabinets and locker plants, N. Y. State Bul. 690.
 habits, children, Maine Bul. 401.
 laws, effect on dextrose utilization, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 minerals and nutrients in, Mass. Bul. 374.
 nutritive value of milk, Wis. Bul. 447.
 plants, absorption of elements important in human physiology and nutrition, Mass. Bul. 374.
 prices, retail, relation to amounts, styles, and containers, Vt. Bul. 448.
 stored, insects, Minn. Bul. 341.
See also Nutrition.
- Forage crops, composition, effect of ensiling, N. J. Bul. 683.
- Forage grasses, chemical composition, Tex. Bul. 582.
- Forage plants—
 species and maturity, effect on consumption of steers, Ill. Bul. 454.
 water requirement, Ariz. Tech. Bul. 80.
- Forage production—
 and costs, range, Nev. Bul. 150.
 irrigated land for, Nev. Bul. 154.
- Forest fires, prevention and suppression, Oreg. Bul. 384.
- Forest trees. *See* Trees, forest.
- Forests—
 coniferous, plantings, Pa. Bul. 394.
 management, land classification for, Mo. Bul. 421.
 site-quality studies in the Adirondacks, N. Y. (Cornell) Mem. 229.
See also Reforestation.
- 4-H Clubs. *See* Boys' and girls' clubs.
- Fowl leukosis, transmissible, review of literature, Mass. Bul. 370.
- Fowl paralysis—
 (neurolymphomatosis) origin and transmission by blood inoculation, Mo. Res. Bul. 304.
 transmission of, and resistance to, Idaho Bul. 235.
- Fowls. *See* Chickens; Hens; Poultry.
- Foxtail millet, culture, Colo. Bul. 461.
- Franklin County, Iowa, soil survey, Iowa Soil Rpt. 79.
- Franklin County, North Carolina, agronomic practices, N. C. Tech. Bul. 66.
- Frederick County, community organization, Md. Bul. 437.
- Freezer-locker, for fruit and vegetable preservation, Tenn. Bul. 168.
- Freezing cabinets and locker plants, food storage, N. Y. State Bul. 690.
- Freezing injury, apples, and set of fruit, Ill. Bul. 473.
- Freezing locker plants, Minn. Bul. 345.

- Frozen desserts, dextrose and corn sirup for, N. Y. State Bul. 696.
- Fruit—
 and vegetable wholesaling and jobbing firms, N. Y. (Cornell) Bul. 721.
 auctions, Eastern Seaboard States, N. Y. (Cornell) Bul. 737.
 crop, regulating by new practices, Mo. Bul. 416.
 drying, investigations in sulfuring, Calif. Bul. 636.
 hardy, new varieties for Northwest, S. Dak. Bul. 339.
 home-preparation for freezer-locker, Tenn. Bul. 168.
 insect control, Ky. Bul. 393.
 marketing through cooperative canning associations, Oreg. Bul. 377.
 pests. *See* Fruit, insect.
 pome, morphology, N. Y. (Cornell) Mem. 230.
 prices and receipts, Terre Haute market, Ind. Bul. 455.
 spraying program, Ohio Bul. 599.
 stone, bacterial canker, Calif. Hilgardia, vol. 12, no. 4.
 sulfuring, for drying, Calif. Bul. 636.
 tree, varieties, Ky. Bul. 394.
- Fruit trees—
 distribution in Wenatchee-Okanogan District, Wash. Bul. 369.
 pruning, Iowa Bul. P10.
- Fruit, vegetatively propagated, investigations, Conn. (State) Bul. 435.
- Frying—
 deep fat, at high altitudes, Wyo. Bul. 235.
 lard and fats for, Iowa Res. Bul. 279.
- Fumigated citrus tissues, recovery of hydrocyanic acid from, Calif. Hilgardia, vol. 12, no. 7.
- Fungicides, analyses and inspection, N. J. Bul. 670, 686.
- Fur bearing and game mammals, Iowa Bul. P3.
- Fusarium conglutinans*, N. Y. State Bul. 689.
- Fusarium lycopersici*, immunity of tomato hybrids, Mo. Res. Bul. 311.
- Fusarium* wilt of tomato, studies, Mo. Res. Bul. 311.
- Game mammals, description, Iowa Bul. P3.
- Garbage, feeding pigs, Ohio Bul. 607.
- Gardenias, diseases, N. J. Bul. 679.
- Gas stoves, selected types, studies, Nebr. Res. Bul. 111.
- Gases, dissolved, in milk and dye reduction, Vt. Bul. 461.
- Gels, as experimental media for study of migration of iron and manganese, Ill. Bul. 472.
- Genetic analysis, red seed coat color, in beans, Calif. Hilgardia, vol. 12, no. 9.
- Genetic studies, *Triticum* species, Mo. Res. Bul. 298.
- Geography, contribution to land classification, Mo. Bul. 421.
- Geomys* spp., Tex. Bul. 590.
- Geranium, leaf curl and mosaic, Wash. Bul. 390.
- Gladiolus—
 corms, morphological and physiological characteristics, effect on growth and flowering, Iowa Res. Bul. 253.
 culture, Iowa Bul. P12.
- Glands, pituitary, in vitamin A-deficient rats, Ohio Bul. 610.
- Goats—
 milk yield, effect of thyroxine, Mo. Res. Bul. 317.
 poisoning by sacahuiste, Tex. Bul. 585.
- Gophers, pocket, distribution and variation in southwest, Tex. Bul. 590.
- Grain—
 and grass, finishing steers, W. Va. Bul. 296.
 cereal, feeding turkeys, S. Dak. Bul. 330.
 green manure and nitrate of soda on, N. J. Bul. 677.
 marketing, cooperative, Iowa Res. Bul. 276.
 small, production in the Yazoo-Mississippi Delta, Miss. Bul. 334.
 stored, insects, Minn. Bul. 340.
 varieties for northern Arizona, Ariz. Bul. 166.
- Grapefruit—
 composition and yield, effect of magnesium deficiency in leaves, Fla. Bul. 331.
 leaves, magnesium deficiency, effect on composition and yield of fruit, Fla. Bul. 331.
- Grapes—
 American, response to fertilizer treatments and vineyard practices, Ark. Bul. 378.
 biochemical studies, Minn. Tech. Bul. 143.
 diseases, Ariz. Bul. 162.
 markets and prices, N. H. Bul. 321.
 pruning, Ariz. Bul. 162.
 training and pruning, Iowa Bul. P7.
 varieties, Ariz. Bul. 162.
 varieties in Arkansas, Ark. Bul. 379.
 varieties for Kentucky, Ky. Bul. 396.
- Grapevines, chlorosis, N. Mex. Bul. 264.
- Grapholitha molesta*, La. Bul. 323.
- Grass and grain, finishing steers, W. Va. Bul. 296.
- Grass silage—
 effect on color and flavor of milk, N. J. Bul. 675.
 feeding dairy cattle, Wash. Bul. 386.
 practices and costs of producing, N. J. Bul. 684.
 preservation and feeding, Mass. Bul. 362.
- Grasses—
 bluestem, deferred grazing, Kans. Bul. 291.
 California foothills, composition, Calif. Bul. 627.
 Everglades, fertilizer treatment, and yield and composition, Fla. Bul. 338.

Grasses—Continued.

- for lawns, culture, Ohio Bul. 613.
- forage, chemical composition, Tex. Bul. 582.
- Hawaiian ranges, Hawaii Bul. 82.
- immature, yield and chemical composition, effect of clipping and drying, Del. Bul. 223.
- legumes and forage, for range restoration, Colo. Bul. 459.
- on ranges, Mont. Bul. 375.
- on sandhill range lands, Nebr. Res. Bul. 117.
- pasture, growth and chemical composition, effect of temperature, Mo. Res. Bul. 299.
- perennial upland range, description, distribution, value, Mont. Bul. 375.
- See also* Bluegrass; Bluestem.
- Grasshoppers—
 - eggs, identification by chorionic sculpturing, Kans. Tech. Bul. 48.
 - in dissemination of bacterial ring rot of potato, N. Dak. Bul. 295.
 - outbreaks in Missouri, Mo. Bul. 406.
- Grasslike plants, range, Mont. Bul. 375.
- Gravel culture, ornamental greenhouse crops, Ohio Bul. 616.
- Grazing—
 - bluestem pastures, Kans. Bul. 291.
 - capacity, sandhill range land, Nebr. Res. Bul. 117.
 - in relation to wood rats, Ariz. Tech. Bul. 86.
 - land classification for, Mo. Bul. 421.
- Great Plains area, classifying land to facilitate adjustment, Mo. Bul. 421.
- Green manure and nitrate of soda on grain, compared, N. J. Bul. 677.
- Greenhouses—
 - gravel culture, ornamental plants, Ohio Bul. 616.
 - mealybug control, Mass. Bul. 375.
 - mineral deficiency of flowering crops, Ohio Bul. 611.
 - plant nutrition experiments, Ark. Bul. 401.
 - tomato leaf mold control, Mass. Bul. 361.
 - white fly, parasite on, Mich. Tech. Bul. 173.
- Grocery stores, price variations, Burlington, Vt. Bul. 466.
- Groundwater supply, Eloy district, Pinal County, Ariz. Tech. Bul. 87.
- Grouse—
 - bibliography on, Mich. Tech. Bul. 166.
 - eastern ruffed, history, distribution, description, Mich. Tech. Bul. 166.
- Growth and development, animals, Mo. Res. Bul. 295, 315.
- Gulf coast prairie, pasture improvement, Tex. Bul. 570.
- Ham, curing and aging, effect on quality, Md. Bul. 428.

- Hardeman County, soils, Tex. Bul. 581.
- Hardwood resources and industries, Ark. Bul. 404.
- Hardwoods, volume tables, Ark. Bul. 396.
- Harvester and bur extractor, cotton, Tex. Bul. 580.
- Harvesting—
 - machinery, soybeans, Va. Bul. 319.
 - with combine-harvester, Ind. Bul. 436.
- Hatchery industry, economic study, Md. Bul. 426.
- Hay—
 - alfalfa. *See* Alfalfa hay.
 - artificially dried, feeding dairy cows, Vt. Bul. 446.
 - barn dried, feeding value, Tenn. Bul. 170.
 - conservation of alfalfa, timothy, and soybeans, nutrients as, Vt. Bul. 459.
 - dehydrated and sun-cured, feeding value, Pa. Bul. 396.
 - drying in barn, and testing feeding value, Tenn. Bul. 170.
 - field curing methods, Miss. Bul. 353.
 - phosphorus in, Wyo. Bul. 233.
 - soybean varieties for, R. I. Bul. 271.
 - sun-cured, feeding value, Pa. Bul. 396.
- Haying in the rain, Mass. Bul. 362.
- HCN content of sorghum, S. Dak. Tech. Bul. 1.
- Health—
 - agencies, Mo. Res. Bul. 307.
 - facilities, S. Dak. Bul. 334.
 - public, and foods, Mass. Bul. 373.
- Heaters—
 - citrus orchard, La. Bul. 312.
 - orchard, operation, Calif. Bul. 643.
 - water, for dairy farms, Ind. Bul. 447.
- Hegari, feeding lambs, N. Mex. Bul. 272.
- Heifer calves. *See* Calves, heifer.
- Heifers—
 - feeding hay, dehydrated vs. sun-cured, Pa. Bul. 396.
 - spayed, open and bred, efficiency in feed lot, Calif. Bul. 645.
- Heliothis armigera*, Calif. Bul. 644.
- Heliothis obsoleta*, Conn. (State) Bul. 419.
- Hemorrhagic anemia, blood picture, Minn. Tech. Bul. 139.
- Hempstead County, farm credit, Ark. Bul. 399.
- Henous confertus*, S. Dak. Bul. 340.
- Hens—
 - in laying cages, management, N. J. Bul. 668.
 - laying, feeding, Miss. Bul. 330; Okla. Bul. 244.
 - laying, feeding methods, Wash. Bul. 381.
 - metabolism of carotenoid pigments, Kans. Tech. Bul. 46.
 - Rhode Island Red, inheritance of broodiness, Mass. Bul. 377.
 - seasonal metabolic and endocrine rhythms, Mo. Res. Bul. 315.
- See also* Pullets.

Heredity—

- corn, flint and dent crossed, characters, N. Dak. Bul. 291.
- hens, broodiness, Mass. Bul. 377.
- oats, crossed varieties, Minn. Tech. Bul. 137.
- sorghum, HCN content, S. Dak. Tech. Bul. 1.

Hessian fly—

- in Indiana, and wheat seeding, Ind. Bul. 440.
- transference of resistance of Marquillo spring wheat to winter wheat, Kans. Tech. Bul. 49.

Heterodera mariona, Ind. Bul. 434.

Hickory and oak stands, defects reducing quality, Iowa Res. Bul. 269.

High Plains cotton area, farm organization and operation, Tex. Bul. 568.

Highways, rural, finance and taxation, Mich. Spec. Bul. 301.

Hogs. *See* Pigs.Holstein-Friesian cattle. *See* Cattle, Holstein-Friesian.

Home management—

- methods of research, Mich. Tech. Bul. 171.
- use of time, N. Y. (Cornell) Bul. 734.

Homes, landscaping, Miss. Bul. 340.

Homestead exemption act, effect on public revenues, S. C. Bul. 323.

Honey—

- analysis, Calif. Bul. 631.
- costs and practices in production, Oreg. Bul. 362.
- physical and chemical properties, Calif. Bul. 631.
- production and marketing, Md. Bul. 427.
- production, and two-queen hive, Wyo. Bul. 239.

Hops—

- new varieties, tests, N. Y. State Bul. 687.
- production cost and efficiency, Oreg. Bul. 364.

Horistonotus uhlerii, La. Bul. 323.

Hormodin A, effect on rooting of cuttings, Iowa Res. Bul. 280.

Hormones, mammogenic, of anterior pituitary, Mo. Res. Bul. 310.

Horry County, farming possibilities, S. C. Bul. 318.

Horseflies, of Delaware, report on, Del. Bul. 226.

Horseradish, diseases, control, Ill. Bul. 469.

Horses—

- power costs, Iowa Res. Bul. 258.
- See also* Colts.

Hotbeds, sweetpotato, Miss. Bul. 349.

House planning, rural women, Oreg. Bul. 369.

House plants, culture, Iowa Bul. P14.

Households, rural, composition, N. Y. (Cornell) Bul. 713; S. C. Bul. 326.

Housing—

- and household equipment, Vt. Bul. 469.
- in Delta area, Utah Bul. 288.

Humic acid, peat soils, neutralization curves, N. Y. (Cornell) Mem. 219.

Huntley irrigation project, land ownership and tenure, Mont. Bul. 385.

Hybrid corn. *See* corn, hybrid.

Hyde County area, ranches and farms, minimum sized, S. Dak. Bul. 346.

Hydrocyanic acid—

- content of sorghum, S. Dak. Tech. Bul. 1.
- recovery from fumigated citrus tissues, Calif. Hilgardia, vol. 12, no. 7.

Hydrogen-ion concentration and metallic salts, effect on viscosity of pectin, Del. Bul. 216.

Hydrolytic enzymes, in activated sludge, N. J. Bul. 669.

Hylurgopinus rufipes, Conn. (State) Bul. 420.*Hymenophyza pubescens*, Nev. Bul. 152.*Hymenolepis* spp., and host catalog, Okla. Tech. Bul. 8.*Hypera postica*, Calif. Hilgardia, vol. 13, no. 3.

Ice cream—

- composition and serving temperature, effect on consumer acceptance and dispensing qualities, Mo. Res. Bul. 303.
- consumer acceptance, effect of composition and serving temperature on, Mo. Res. Bul. 303.

- consumer acceptance, relation of acidity and serum solids to, Mo. Res. Bul. 322.
- dextrose and cerelose, replacing cane sugar, Mo. Res. Bul. 323.

- dextrose and corn sirup for, N. Y. State Bul. 696.
- dextrose in manufacture, Ill. Bul. 452.

- physical and chemical properties of, relation of acidity and serum solids to, Mo. Res. Bul. 322.

- replacing cane sugar with dextrose and cerelose, Mo. Res. Bul. 323.

- sandy, alpha hydrate and beta anhydride lactose crystals in, Mo. Res. Bul. 302.

- stores, modern trends, Mo. Bul. 420.
- texture and structure, effect of composition, physical properties, and processing, Mo. Res. Bul. 320.

Idaho agricultural experiment station, report, Idaho Bul. 229, 236.

Illinois pisi, Wash. Bul. 389.

Imperial Valley, flax production, Calif. Bul. 641.

Imports, effects on demand for corn, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.

Inbreeding, swine, Okla. Tech. Bul. 7.

Income—

- and farming systems and practices, Wash. Bul. 374.
- farm, and family living, Ky. Bul. 405.

- from cattle, Colo. Bul. 460.
- village families, Vt. Bul. 450.

Index numbers—

- prices, farm, Miss. Bul. 332; Mo. Res. Bul. 312.
- prices of agricultural products, Pa. Bul. 384.

- Index, publications, Virginia agricultural experiment station, Va. [Unnumbered Pub.] 1938.
- Indian corn, origin, Tex. Bul. 574.
- Infectious bronchitis, chickens, R. I. Bul. 273.
- Infectious enterotoxemia in lambs, Oreg. Bul. 367.
- Inheritance. *See* Heredity.
- Insecticides—
analyses and inspection, N. J. Bul. 670. 686.
contact, studies, N. H. Tech. Bul. 74.
- Insects—
apple, Pa. Bul. 376.
cotton, in Puerto Rico, P. R. Bul. 39.
experiments with, La. Bul. 323.
fruit, control, Ky. Bul. 393.
potato, dusting and spraying, N. Mex. Bul. 266.
report on, Conn. (State) Bul. 428, 434; Mont. Bul. 366, 384.
stored foods, Minn. Bul. 341.
stored grain and seed, Minn. Bul. 340.
tobacco, Conn. (State) Bul. 422, 433.
toxicology and physiology, Calif. Hilgardia, vol. 13, no. 6.
- Insemination, artificial, dairy cows, Mo. Bul. 407.
- Insulation, walls, fill-type and moisture accumulation, Iowa Res. Bul. 271.
- Intestinal bacteria, effect of iodine, Mass. Bul. 374.
- Iodine—
and bacterial counts in milk, Mass. Bul. 374.
effect on enzymes of milk and digestive systems of man and animals, Mass. Bul. 374.
in milk, added, effect on fecal bacteria, Mass. Bul. 374.
in soils, Tex. Bul. 579.
in water, vegetables, cottonseed meal and roughages, Tex. Bul. 595.
- Iodine-potassium iodide solution, disinfectant for bacterial ring rot of potato, Mont. Bul. 386.
- Ion balance and nitrate concentration in citrus nutrition, Calif. Hilgardia, vol. 13, no. 4.
- Iron—
availability in vegetables, molasses and sirup, Miss. Tech. Bul. 26.
deficiency, citrus, Fla. Bul. 335.
migration in colloidal systems, Ill. Bul. 472.
salts, in control of chlorosis, N. Mex. Bul. 264.
- Irradiation of milk, Wis. Res. Bul. 136.
- Irrigated land, for forage production, Nev. Bul. 154.
- Irrigated pastures, for dairy cattle, Oreg. Bul. 366.
- Irrigation—
effect on desert soils, N. Mex. Bul. 263.
pears, in clay adobe soil, Oreg. Bul. 374.
rice, water resources, Ark. Bul. 371.
supplemental in Missouri, Mo. Bul. 410.
- Jackson County soil-conservation area, agriculture, W. Va. Bul. 291.
- Jasper County, soil survey, Ill. Soil Rpt. 68.
- Jelly, fruit, role of pectin, Del. Bul. 216.
- Johnson Township, Knox County, farming units and land, Ind. Bul. 450.
- Jones County, survey of sweetpotato farms, Miss. Bul. 352.
- Judging, livestock, dairy, poultry, and crops, Miss. Bul. 344.
- Kalamazoo milk market, Mich. Spec. Bul. 300.
- Kalo and corn in chick ration, compared, Nebr. Res. Bul. 109.
- Kaolinite—
indetermination of phosphate deficiency in soils, Calif. Hilgardia, vol. 12, no. 5.
in phosphate fixation, Calif. Hilgardia, vol. 12, no. 5.
- Kelp, effect on atherosclerosis, Mass. Bul. 374.
- Kent County, land utilization, Del. Bul. 224.
- Kentwood area, dairy farms in, economic study, La. Bul. 325.
- Kerosene stoves, performance analysis, Maine Bul. 394.
- Kidney disease, in lambs, Oreg. Bul. 367.
- Knapweed, Russian, chemical control, N. Dak. Bul. 292.
- Kudzu, uses, Miss. Bul. 326.
- Labor—
farm, cost and utilization, Iowa Res. Bul. 258.
organization, cotton farms, change in, Ark. Bul. 397.
sugarcane farms, social study, La. Bul. 320.
- Laborers, farm, Ariz. Bul. 163.
- Laborers, wage-laborers on farms, S. C. Bul. 328.
- Lactose, and sandiness in ice cream, Mo. Res. Bul. 302.
- Ladybird beetle, in control of mealybugs, Mass. Bul. 375.
- Lafayette, pasture fertilization, La. Bul. 304.
- Lambs—
ewe feeding, first winter, effect, Utah Bul. 292.
fattening on Oregon feedstuffs, Oreg. Bul. 370.
fattening with cottonseed meal, hegari, and alfalfa hay, N. Mex. Bul. 272.
feeding cottonseed meal, hegari, and alfalfa hay, N. Mex. Bul. 272.
feeding, Oregon feedstuffs, Oreg. Bul. 370.
feeding, self-feeding vs. hand feeding, Mich. Spec. Bul. 303.
feeding soybean oil meal, Pa. Bul. 397.
management, Iowa Bul. P4.

- Lambs—Continued.
 pulpy kidney disease, Oreg. Bul. 367.
 quality production, Iowa Bul. P4.
 range, feeding, Kans. Bul. 287.
- Land acquired by State, for reforestation,
 N. Y. (Cornell) Bul. 712.
- Land and fiscal problems, Reynolds County,
 Mo. Res. Bul. 324.
- Land classification—
 basic data for, Idaho Bul. 232.
 materials and techniques of, Mo. Bul.
 421.
 proceedings of first national conference
 on, Mo. Bul. 421.
 soil features in, Mo. Bul. 421.
 theory of, Mo. Bul. 421.
- Land, corporate-owned, in Iowa, Iowa Res.
 Bul. 266.
- Land development scheme, New Jersey Pine
 area, N. J. Bul. 665.
- Land divisions, natural, utilization and
 adaptation, Calif. Bul. 638.
- Land holdings, rural, S. C. Bul. 331.
- Land management, and character of farm
 units, Ind. Bul. 450.
- Land ownership—
 and tenure. Huntley irrigation project,
 Mont. Bul. 385.
 State, Ark. Bul. 370.
- Land tenure—
 Huntley irrigation project, Mont. Bul.
 385.
 in Arkansas, Ark. Bul. 384, 397.
- Land types, soil characteristics, Conn. (State)
 Bul. 423.
- Land use. *See* Land utilization.
- Land utilization—
 and production costs on wheat farms,
 Oreg. Bul. 373.
 Delaware, Kent County, economic study,
 Del. Bul. 224.
 for forage production, Nev. Bul. 154.
 Indiana, problems, programs, and poli-
 cies, Martin County, Ind. Bul. 453.
 Louisiana, Beauregard Parish, economic,
 La. Bul. 322.
 New Jersey, pine area, N. J. Bul. 665.
 New York, Chautauqua County, N. Y.
 (Cornell) Bul. 720.
 New York, Yates County, N. Y. (Cornell)
 Bul. 727.
 on natural land divisions, Calif. Bul. 638.
 planning, and land classification, Mo.
 Bul. 421.
 reforestation, N. Y. (Cornell) Bul. 712.
 Rhode Island, Providence County, R. I.
 Bul. 275.
 tobacco area of southern Maryland, Md.
 Bul. 424.
- Land valuation—
 and crop yield tests, Iowa Res. Bul. 252.
 and land classification, Mo. Bul. 421.
 in Iowa, Iowa Res. Bul. 266.
- Land-grant college movement, Mo. Bul. 419.
- Landlord-tenant relationships—
 in renting, Mo. Bul. 409.
 legal aspects, Okla. Bul. 241.
- Landscaping homes, Miss. Bul. 340.
- Lansing region, town-country communities,
 Mich. Spec. Bul. 302.
- Lard—
 and fats for frying purposes, Iowa Res.
 Bul. 279.
 physical and chemical characteristics
 and culinary value, Iowa Res. Bul.
 255, 279.
 use in cake, Iowa Res. Bul. 255.
- Las Vegas, field crop experiments, N. Mex.
 Bul. 271.
- Lattice designs in corn varietal tests, con-
 struction and numerical analysis, mathe-
 matical theory, Iowa Res. Bul. 281.
- Lattice square and block designs, in testing
 yields of soybean varieties, Iowa Res. Bul.
 257.
- Laurens County, sharecroppers and wage-
 laborers, S. C. Bul. 328.
- Lawns—
 experiments, Ohio Bul. 613.
 sod webworms in, Ky. Bul. 391.
- Layers. *See* Hens, laying.
- Laying cages, management of hens in, N. J.
 Bul. 668.
- Layout, farm, planning, Minn. Bul. 350.
- Lead arsenate sprays, rosin residue emulsion
 as sticker, Del. Bul. 221.
- Leaf curl of geranium, Wash. Bul. 390.
- Leafhoppers, in transmission of yellows dis-
 ease, N. Y. (Cornell) Bul. 742.
- Leases—
 farm, Wash. Bul. 385.
 types of, Pa. Bul. 383.
- Leasing, farms, Wash. Bul. 385.
- Lecanium corni*, Okla. Bul. 245.
- Lecithoprotein, oxidation, and off-flavor in
 butter, Minn. Tech. Bul. 134.
- Legume inoculant, inspection, N. J. Bul. 672.
- Legume silage, feeding poultry, Tenn. Bul.
 172.
- Legumes—
 for soil improvement, Miss. Bul. 336.
 in crop production, Yazoo-Mississippi
 Delta, Miss. Bul. 345.
 interplanting in corn, effects, Ark. Bul.
 393.
 on cotton and corn, Miss. Bul. 336.
 winter, cover crops, as green manure for
 cotton, La. Bul. 318.
 winter, growing, La. Bul. 318.
- Leguminous plants, associated organisms,
 N. Y. (Cornell) Mem. 221.
- Lepidium draba*, N. Dak. Bul. 292.
- Lepedeze—
 experiments, Va. Bul. 328.
 seed harvesting equipment, Tenn. Bul.
 171.

- Lettuce—
 fertilizer experiments, on alkaline-calcareous soils, Ariz. Tech. Bul. 85.
 handling and shipping, N. Y. (Cornell) Bul. 732.
 Iceberg, production problems, N. Y. (Cornell) Bul. 714.
 yellows disease, N. Y. (Cornell) Bul. 742.
- Leukosis, fowl, transmissible, review of literature, Mass. Bul. 370.
- Lexington County, school area, population study, S. C. Bul. 325.
- Lilies, Easter, culture and forcing, Mass. Bul. 376.
- Lime—
 analyses and inspection, N. J. Bul. 662, 674.
 and sugarcane beetle injury, La. Bul. 323.
 effect on nitrogen content of cow manure, Vt. Bul. 456.
 on pastures, Mich. Tech. Bul. 167.
- Limestone, ground, in ration of fattening calves, Kans. Tech. Bul. 51.
- Liming, overliming injury, Vt. Bul. 460.
- Livestock—
 judging, Miss. Bul. 344.
 market variations, seasonal, Iowa Bul. P5.
 marketing, N. Y. (Cornell) Bul. 744.
 marketing, death and crippling in, Minn. Bul. 342.
 poisoning by oat hay and nitrate-containing plants, Wyo. Bul. 241.
 poisoning by plants. *See* Plants poisonous to livestock.
 system, effect of the Soil Conservation Service program, Iowa Bul. 381.
See also Animals; Cattle; Horses; Sheep; Swine.
- Living conditions, Central Basin and Highland Rim, and phosphate in soil, Tenn. Pop. Bul. 1.
- Loans, farm. *See* Mortgages.
- Locker plants, freezing, N. Y. State Bul. 690; Tenn. Bul. 168.
- Lockers, cold-storage, operation and cost, Minn. Bul. 345.
- Lumber, hardwood, industries, Ark. Bul. 404.
- Luperodes brunneus*, La. Bul. 323.
- Lycopersicon pimpinellifolium*, immunity to *Fusarium* wilt and inheritance in hybrids, Mo. Res. Bul. 311.
- Lygus bugs, and alfalfa seed production, Utah Bul. 284.
- Lygus hesperus* and *L. elisus*, life history and control, Utah Bul. 284.
- Lymphomatosis—
 transmission of and resistance to, Idaho Bul. 235.
See also Neurolymphomatosis.
- Lysimeters—
 experiments with soil nitrogen, water, and nitrate leachings, Conn. (State) Bul. 429.
- Macadamia nut, processing, Hawaii Bul. 83.
- McIntosh drop, Mass. Bul. 372.
- Machinery—
 cotton harvesting, Tex. Bul. 580.
 farm, cost of using, Ind. Bul. 437.
 for harvesting soybeans, Va. Bul. 319.
See also Combine-harvester; Harvester and bur extractor; Harvesting machinery.
- Machines—
 farm, rubber tires for, Iowa Bul. P9.
 milking, cleaning, bacteriological studies, Ind. Bul. 449.
- Macrobasia* spp., S. Dak. Bul. 340.
- Madison County, reforestation, N. Y. (Cornell) Bul. 712.
- Magnesium—
 deficiency, and white tip of rice, Tex. Bul. 584.
 deficiency in grapefruit leaves, effect on yield and composition of fruit, Fla. Bul. 331.
 deficiency, symptoms, citrus, Fla. Bul. 335.
- Maine agricultural experiment station, report, Maine Bul. 397, 400.
- Maize—
 carotenoid pigments, effect of gene dosage, Kans. Tech. Bul. 46.
 in relation to culture and civilization, Tex. Bul. 574.
 origin, Tex. Bul. 574.
See also Corn.
- Mammals, fur-bearing and game, Iowa Bul. P3.
- Mammary glands, and mammogenic hormones of the anterior pituitary, Mo. Res. Bul. 310.
- Mammogenic hormones of the anterior pituitary, duct growth factor, Mo. Res. Bul. 310.
- Manganese—
 deficiency, citrus, Fla. Bul. 335.
 effect on eggshell quality, Ark. Bul. 374.
 migration in colloidal systems, Ill. Bul. 472.
- Manure—
 analyses and inspection, N. J. Bul. 674.
 cow, nitrogen content, effect of lime, Vt. Bul. 456.
 farm, preservation, management and storage, Ohio Bul. 605.
 vegetable crop experiments, Ark. Bul. 392.
- Maple products (sugar), industry, Md. Bul. 431.
- Maple sugar, products, industry, Md. Bul. 431.
- Market preferences, Idaho potatoes, Idaho Bul. 231.
- Market variations, seasonal, Iowa Bul. P5.
- Marketing—
 associations, cooperative, N. Dak. Bul. 294.
 auctions, farm products, Md. Bul. 434.

Marketing—Continued.

- auctions, fruit and vegetables, N. Y. (Cornell) Bul. 737.
- berries, N. H. Bul. 321.
- butter, post-war developments, Iowa Res. Bul. 250.
- by truck, farm products, Ind. Bul. 443, 446.
- by truck, milk, N. H. Bul. 325.
- celery, N. Y. (Cornell) Bul. 715.
- cheese, post-war developments, Iowa Res. Bul. 261.
- chickens, Del. Bul. 218.
- cooperative attitudes of farmers to, Ohio Bul. 606.
- cotton, Coastal Plain area, N. C. Bul. 325.
- cotton, practices, N. C. Tech. Bul. 64.
- eggs, Del. Bul. 218; Md. Bul. 430.
- fruit and vegetables by auctions, N. Y. (Cornell) Bul. 737.
- fruit and vegetables through canning associations, Oreg. Bul. 377.
- fruit and vegetables, wholesale and jobbing, N. Y. (Cornell) Bul. 721.
- grain, cooperative, Iowa Res. Bul. 276.
- hogs, carcass system, Iowa Res. Bul. 270.
- hogs, practices, Iowa Res. Bul. 262.
- honey, Md. Bul. 427.
- lettuce, handling and shipping, N. Y. (Cornell) Bul. 732.
- livestock, N. Y. (Cornell) Bul. 744.
- livestock, death and crippling in, Minn. Bul. 342.
- milk, analysis of dealers' sales, N. Y. (Cornell) Bul. 735.
- milk and cream, cost of transportation, Vt. Bul. 462.
- milk, Massachusetts, Worcester, Mass. Bul. 366.
- milk, Michigan, Kalamazoo, Mich. Spec. Bul. 300.
- milk, Ohio producers, Ohio Bul. 609, 614.
- milk, retailing by producer-distributor, N. Y. (Cornell) Bul. 741.
- milk, truck routes, N. H. Bul. 325.
- peas, dry, Wash. Bul. 391.
- potatoes, Idaho Bul. 231; Pa. Bul. 372.
- poultry, economic problems, Calif. Bul. 642.
- prunes, dried, Oreg. Bul. 378.
- rice, Ark. Bul. 395.
- sweetpotatoes, La. Bul. 310; Md. Bul. 436.
- tobacco, seasonal prices and sales, Ky. Bul. 409.
- turkeys, Del. Bul. 218; Md. Bul. 429.
- woodland products, N. H. Bul. 318.

Markets—

- Baltimore egg market, Md. Bul. 430.
- for berries, N. H. Bul. 321.
- milk distribution in, Maine, Bul. 395.
- milk, farm sales in, Ohio Bul. 609.
- milk, for Ohio farmer, Ohio Bul. 614.
- milk, Kalamazoo, Mich. Spec. Bul. 300.
- milk, New York, analysis of dealers sales, N. Y. (Cornell) Bul. 735.

Markets—Continued.

- milk, Worcester, economics of, Mass. Bul. 366.
- Terre Haute producers, market for fruit and vegetables, Ind. Bul. 455.
- Marl soils. *See* Soils, marl.
- Marshall County, soil conservation, W. Va. Bul. 293.
- Martin County, land use problems, Ind. Bul. 453.
- Maryland, State fiscal capacity, Md. Bul. 438.
- Massachusetts agricultural experiment station, report, Mass. Bul. 355, 369.
- Mastitis—
 - and udder staphylococci, Conn. (Storrs) Bul. 231.
 - diagnosis, and control, N. H. Tech. Bul. 72.
- Mathematical theory, lattice design in corn variety tests, Iowa Res. Bul. 281.
- May beetles, distribution and history, Ky. Bul. 401.
- Mealybugs, biological control in greenhouses, Mass. Bul. 375.
- Meat—
 - meal, feeding poultry, Wash. Bul. 388.
 - storage in lockers, Minn. Bul. 345.
 - See also* Ham; Mutton; Pork.
- Mechanics, farm, Miss. Bul. 337.
- Medical care—
 - among negroes, Delta area, Ark. Bul. 372.
 - coal mining population, Ark. Bul. 394.
- Melanoplus* spp., Mo. Bul. 406.
- Melanose, citrus, commercial control, Fla. Bul. 349.
- Melons, variation in solids of juice from different regions, Calif. Hilgardia, vol. 13, no. 2.
- Men, young, vocational students, entering farming, Pa. Bul. 385.
- Menhaden fish meal, feeding turkeys, and fishy flavor of meat, Va. Bul. 321.
- Mercuric chloride, disinfectant for bacterial ring rot of potato, Mont. Bul. 386.
- Mercury—
 - compounds, addition to fertilizers, for potato scab control, N. Y. State Bul. 685.
 - yellow oxide of, for potato seed treatment, N. Y. State Bul. 694.
- Metabolic and endocrine rhythms in fowl, Mo. Res. Bul. 315.
- Metabolism—
 - carotenoid pigments by hens, Kans. Tech. Bul. 46.
 - wheat plant, nitrogen, phosphorous, potassium, Kans. Tech. Bul. 47.
- Metabolizable energy, of chicken feeds, Tex. Bul. 589.
- Metallic salts, effect on viscosity of pectin, Del. Bul. 216.
- Meteorological data, fifty years' record, Colo. Bul. 456.
- Meteorological records, fifty-year summary, Mass. Bul. 367.
- Meteorology. *See also* Weather.

Mexican bean beetle—

derris and cubé dust in control, La. Bul. 323.

insecticides for, S. C. Bul. 322.

Migration—

from rural community, N. Y. (Cornell) Bul. 736.

Kentucky population, Ky. Bul. 395.

Mildew—

downy, onions, breeding for resistance, Calif. Hilgardia, vol. 12, no. 9.

downy, spinach, N. Y. (Cornell) Bul. 718.

downy, tobacco, control, Conn. (State) Bul. 433; Fla. Bul. 330, 342; Va. Bul. 324.

powdery, roses, N. Y. (Cornell) Mem. 223.

Milk—

and cream, cost of transporting to Boston, Vt. Bul. 462.

and cream, receipts, utilization and prices, Maine Bul. 399.

and cream, sales in New York market, N. Y. (Cornell) Bul. 735.

as food, nutritive value, Wis. Bul. 447.

bacterial counts, and iodine, Mass. Bul. 374.

cartage in Southwick-Agawam area of the Springfield milkshed, Mass. Bul. 363.

color and flavor, maintaining, N. J. Bul. 675.

composition, S. Dak. Bul. 331.

composition, from Brown Swiss cows, Ill. Bul. 457.

control, economic implications, Oreg. Bul. 375.

control, State and Federal, developments in, Maine Bul. 399.

cooked flavor, effect of heating, Mich. Tech. Bul. 164.

cost of production, La. Bul. 321.

cost of production, and size of cow, N. Y. (Cornell) Bul. 719.

distribution costs of producer-distributors and subdealers, N. J. Bul. 663.

distribution in Maine markets, Maine Bul. 395.

dye reduction, and dissolved gases in, Vt. Bul. 461.

enzymes of, effect of iodine, Mass. Bul. 374.

flavor and color, maintaining, N. J. Bul. 675.

flavor, cooked, effect of heating, Mich. Tech. Bul. 164.

flavor, oxidized, relation of bacteria and oxygen, Vt. Bul. 457.

flavor, physiological factors affecting, Okla. Tech. Bul. 6.

flavor, scores, validity, Okla. Tech. Bul. 6.

goats, yield and composition, effect of thyroxine, Mo. Res. Bul. 317.

Milk—Continued.

heating, and cooked flavor, Mich. Tech. Bul. 164.

irradiation, Wis. Res. Bul. 136.

marketing. *See* Marketing, milk.

markets. *See* Markets, milk.

pasteurization, effect on Limburger cheese, N. Y. State Tech. Bul. 253.

pasteurization, time and temperature, effect on, N. Y. State Tech. Bul. 254.

plants, methods of sampling milk, Ill. Bul. 459.

prices, Mich. Spec. Bul. 300.

prices, in milk control area, Maine Bul. 399.

producers' association, organization and management, Ky. Bul. 390.

product-costs, to dealers, Mass. Bul. 365.

production, costs and returns in, Mich. Spec. Bul. 297.

production, effect of fasting and re-feeding cows, Mo. Res. Bul. 295.

protein, blood precursors, Mo. Res. Bul. 296.

protein constituents, Wis. Bul. 447.

refrigeration, electric, Pa. Bul. 375.

retailing by producer-distributors, N. Y. (Cornell) Bul. 741.

sampling methods at milk plants, Ill. Bul. 459.

sampling, preserving, testing, Oreg. Bul. 383.

skim, dry, feeding poultry, Pa. Bul. 381; Tex. Bul. 569.

soft curd, comparative digestibility in vitro, Pa. Bul. 380.

testing, Oreg. Bul. 383.

testing, sampling methods, Ill. Bul. 459.

transportation, N. H. Bul. 325.

vitamin constituents, Wis. Bul. 447.

yellow color measurement, N. J. Bul. 671.

yield and composition, effect of thyroxine, Mo. Res. Bul. 317.

Milking machines, cleaning, bacteriological studies, Ind. Bul. 449.

Millers, dry, analysis of interests, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.

Millet—

culture and use, Oreg. Bul. 361.

foxtail, culture, Colo. Bul. 461.

proso, in poultry ration, S. Dak. Bul. 337.

Milling industry, wet, effect of Agricultural Adjustment Act, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.

Milo, *Pythium* root rot, resistant varieties, Calif. Bul. 629.

Mineral deficiency symptoms, flowering crops, Ohio Bul. 611.

Mineral differences, on soils, plants, animals, and living conditions, Tenn. Pop. Bul. 1.

Mineral nutrient deficiencies, effect on sweet peas, N. Y. (Cornell) Bul. 745.

- Mineral oil ingestion, effect on animal nutrition, Ariz. Tech. Bul. 84.
- Minerals—
in human and cattle foods, Mass. Bul. 374.
in nutrition, Mass. Bul. 374.
- Minneapolis, consumption of fats and oils in, Minn. Bul. 344.
- Missouri agricultural experiment station, report, Mo. Bul. 413.
- Mite, cotton, in Puerto Rico, P. R. Bul. 39.
- Mite. *See also* European red mite; Red Spider.
- Moisture accumulation in walls, and insulation, Iowa Res. Bul. 271.
- Molasses—
cane, feeding pigs, Ohio Bul. 607.
cane, in beef cattle feeding, Hawaii Bul. 85.
grass silage, effect on color and flavor of milk, N. J. Bul. 675.
in preservation of grass silage, Mass. Bul. 362.
value in nutritional anemia. Miss. Tech. Bul. 26.
- Molds, on cold-storage eggs, Mich. Tech. Bul. 174.
- Montana State entomologist, report, Mont. Bul. 366, 384.
- Mormon cricket, sodium arsenite in control, Mont. Bul. 370.
- Mortgages—
farm, financing, results, N. Y. (Cornell) Bul. 726.
farm, foreclosures, Iowa Res. Bul. 266; Mont. Bul. 368.
farm, loan experience, in Illinois, Ill. Bul. 468.
farm, loan experience, in Montana, Mont. Bul. 372.
farm real estate, indebtedness, Mont. Bul. 383.
- Mosaic—
geranium, Wash. Bul. 390.
narcissus, N. Y. (Cornell) Mem. 224.
peaches, Calif. Hilgardia, vol. 12, no. 10.
Prunus species, Calif. Hilgardia, vol. 12, no. 10.
roses, Calif. Hilgardia, vol. 12, no. 10.
sugarcane, seed selection and roguing in control, La. Bul. 308.
tobacco, Wis. Bul. 445.
tobacco, virus protein. Mo. Res. Bul. 297.
- Mosquero experiment field, dry farming investigations, N. Mex. Bul. 265.
- Mosquitoes—
control, ditching for, effect on muskrat population, Del. Bul. 225.
rice field, biologies, Ark. Bul. 377.
- Motors, electric, for farm, Iowa Bul. P13.
- Mulch, in orchard, N. Y. State Bul. 691.
- Muskrat population, effect of ditching for mosquito control, Del. Bul. 225.
- Musselshell County, soil survey, Mont. Bul. 374.
- Mutton, effect of breeding purebred rams on native ewes, N. C. Tech. Bul. 60.
- Myriophyllum*—
nature of the carbohydrates of, Minn. Tech. Bul. 136.
nutritive value and chemical composition, Minn. Tech. Bul. 136.
- Nailhead spot of tomato, Fla. Bul. 332.
- Nansemond County, peanut-cotton-hog farm business, analysis, Va. Tech. Bul. 67.
- Naphthalene acetic acid and naphthalene acetamide, and control of fruit dropping, Mo. Bul. 416.
- Narcissus—
mosaic, studies, N. Y. (Cornell) Mem. 224.
paperwhite, growth cycle, bulb and flower production, Fla. Bul. 353.
- National conference on land classification, proceedings, Mo. Bul. 421.
- Necrotic enteritis in swine, and nutrition, Mich. Tech. Bul. 170.
- Necrotic hepatitis, infectious sheep, Oreg. Bul. 360.
- Negroes, sickness and medical care, Ark. Bul. 372.
- Nematode, root knot tomato, Ind. Bul. 434.
- Neotoma albigula albigula*, Ariz. Tech. Bul. 86.
- Neurolymphomatosis, origin and transmission by blood inoculation, Mo. Res. Bul. 304.
- New Hampshire agricultural experiment station, report, N. H. Bul. 313, 319.
- New Jersey pine area, land development, N. J. Bul. 665.
- Newspapers—
country, weekly, distribution and characteristics, Wash. Bul. 373.
weekly, content, Wash. Bul. 387.
weekly, rural, portrayal of interests of rural people, Mich. Spec. Bul. 298.
- Nicotiana tabacum*, morphology of the end walls, in differentiating vessels, Calif. Hilgardia, vol. 13, no. 5.
- Nicotine-bentonite preparations, as sprays, Mo. Res. Bul. 316.
- Nitrate—
concentration and ion balance, and citrus nutrition, Calif. Hilgardia, vol. 13, no. 4.
content of plants, and livestock poisoning, Wyo. Bul. 241.
leachings, and soil and fertilizer nitrogen, lysimeter experiments, Conn. (State) Bul. 429.
- Nitrate of soda, and green manure on grain, compared, N. J. Bul. 677.
- Nitrogen—
content of cow manure, effect of lime, Vt. Bul. 456.
deficiency, citrus, Fla. Bul. 335.
distribution in *Elodea canadensis*, Minn. Tech. Bul. 136.

Nitrogen—Continued.

- effect on composition of tobacco, Conn. (State) Bul. 442.
- effect on composition of tomato plant, N. H. Tech. Bul. 73.
- effect on earliness of cotton, La. Bul. 306.
- fertilization of peach trees, N. C. Bul. 322.
- fertilizer and soil, seasonal water and nitrate leachings, Conn. (State) Bul. 429.
- from fertilizer sources, effect on peach production, Del. Bul. 222.
- of soils, effect of cropping and fertilizer treatments, Kans. Tech. Bul. 45.
- of urea, utilization by chicks, Nebr. Res. Bul. 120.
- on apple and peach trees in sand culture, Ky. Bul. 410.
- on oats, Miss. Bul. 348.
- Nodonota puncticollis*, Pa. Bul. 387.
- Nolina texana*, poisonous to sheep and goats, Tex. Bul. 585.
- North Atlantic States, soils, analyses, N. J. [Unnumbered Pub.] 1940.
- Nucleic acids in *Brucella*, studies, Mich. Tech. Bul. 168.
- Nutrients, in Louisiana soils, determination, by chemical methods, La. Bul. 313.
- Nutrition—
 - animal, effect of ingestion of mineral oil, Ariz. Tech. Bul. 84.
 - human, and absorption by food plants of chemical elements, Mass. Bul. 374.
 - human. *See also* Food; Vitamins.
 - minerals in, Mass. Bul. 374.
 - of crops, and foliar diagnosis, Pa. Bul. 378.
 - plant, experiments in greenhouse, Ark. Bul. 401.
- Nutritional anemia, studies, Miss. Tech. Bul. 26.
- Nutritional deficiency, and necrotic enteritis in swine, Mich. Tech. Bul. 170.
- Nutritional encephalomalacia, and related disorders, in chicks, Conn. (Storrs) Bul. 229.
- Nutritional studies of dehydrated sweet-potato, S. C. Bul. 329.
- Nutritive value—
 - milk, Wis. Bul. 447.
 - water plants, Minn. Tech. Bul. 136.
- Nuts—
 - production, and soil moisture, root distribution, and aeration, Oreg. Bul. 372.
 - See also* Almonds; Macadamia nut; Walnut.
- Oak-hickory stands, defects reducing quality, Iowa Res. Bul. 269.
- Oat hay and straw, livestock poisoning, Wyo. Bul. 241.
- Oat products, feeding pigs, Ohio Bul. 607.
- Oats—
 - Bond, and *Avena byzantina* and *A. sativa*, inheritance in crosses, Minn. Tech. Bul. 137.

Oats—Continued.

- crown rust, longevity of urediospores, Ark. Bul. 391.
- cultural practices, Miss. Bul. 334.
- culture, Miss. Bul. 348.
- in poultry ration, S. Dak. Bul. 337.
- nitrogen application, and yield, Miss. Bul. 334.
- seed treatment, Ark. Bul. 389.
- varieties, Nebr. Bul. 328.
- variety comparisons, fertilizers, rotation, and nitrogen experiments, Miss. Bul. 348.
- Ohio agricultural experiment station, report, Ohio Bul. 600, 617.
- Oil—
 - mineral, effects on animal nutrition, Ariz. Tech. Bul. 84.
 - sprays for scale insects, Va. Bul. 322.
- Oils, consumption in Minneapolis, Minn. Bul. 344.
- Onion sets, fertilizing, in rotation, Ill. Bul. 464.
- Onions—
 - downy mildew, breeding for resistance, Calif. Hilgardia, vol. 12, no. 9.
 - seed, production, effect of storage, bulb size, spacing, and planting time, Calif. Bul. 628.
 - vitamin content, effect of storage, Mont. Bul. 379.
- Oranges—
 - quality, from Louisiana and other States, compared, La. Bul. 311.
 - satsuma, pests, spraying, Ala. Bul. 248.
 - stasuma, scale insects and mites, Ala. Bul. 248.
- Orchard heaters—
 - citrus, La. Bul. 312.
 - operation, Calif. Bul. 643.
- Orchards—
 - fertilizers, N. Y. State Bul. 691.
 - growing, Kans. Bul. 290.
 - heating, Calif. Bul. 643; La. Bul. 312.
 - home, management, Miss. Bul. 350.
 - management Colo. Bul. 458; Kans. Bul. 290.
 - soil management, Pa. Bul. 373.
 - soil management, fertilizers, mulches, cover crops, N. Y. State Bul. 691.
 - soils, organic, carbon and nitrogen content, effect of management, Pa. Bul. 373.
 - See also* Fruit trees.
- Organic matter decomposition, effect on phosphorus in alkali soils, Nebr. Res. Bul. 113.
- Organization, rural community, Md. Bul. 437.
- Oriental fruit moth, parasites, La. Bul. 323.
- Ornamental greenhouse crops, gravel culture, Ohio Bul. 616.
- Ornamental plants, propagation, Fla. Bul. 347.
- Overliming injury, cause and nature, Vt. Bul. 460.
- Owls, great horned owl, prey, (food habits), Iowa Res. Bul. 277.

- Oxford County, dairy and cash crop farms organization and management, Maine Bul. 398.
- Oxidation, butter, Minn. Tech. Bul. 134.
- Oxygen, effect on milk flavor, Vt. Bul. 457.
- Paint, and plasters, for rammed earth walls, S. Dak. Bul. 336.
- Palouse area, production and marketing dry peas, Wash. Bul. 391.
- Papaya, culture, propagation, diseases, insects, Fla. Bul. 350.
- Paradichlorobenzene—
in control of tobacco mildew, Conn. (State) Bul. 433; Fla. Bul. 342.
in fumigation of tobacco seedbed for blue mold, Va. Bul. 324.
treatment, downy mildew of tobacco, Fla. Bul. 330.
- Parasitic diseases, turkeys, prevention by confinement, Va. Bul. 323.
- Paratetranychus pilosus*, Pa. Bul. 376, 390.
- Paratrioza cockerelli*, Colo. Bul. 454; Nebr. Bul. 327.
- Paratyphoid of pigeons, N. C. Tech. Bul. 62.
- Parcoblatta pennsylvanica*, Ind. Bul. 451.
- Part-time farmers, social characteristics, Wash. Bul. 380.
- Pasteurization—
milk, effect on properties and constituents, N. Y. State Tech. Bul. 254.
vacuum, of cream for butter, Iowa Res. Bul. 284; Oreg. Bul. 368.
- Pasteurizing soils, electric devices for, N. Y. (Cornell) Bul. 731.
- Pasture plants—
for permanent pastures, Ga. Bul. 207.
phosphorus in, Wyo. Bul. 233.
- Pastures—
and plant food, Vt. Bul. 464.
beef cattle, improving on rice lands, La. Bul. 305.
bluestem, deferred grazing, Kans. Bul. 291.
clover, winter, management, Fla. Bul. 351.
effect of temperature on grasses, Mo. Res. Bul. 299.
fertilization, Lafayette, La. Bul. 304.
fertilizer and seeding practices, Ga. Bul. 207.
fertilizers and lime on, Mich. Tech. Bul. 167.
fertilizers, top dressing, N. H. Bul. 320.
improvement and management, Iowa Bul. P8.
improvement, and variability of white clover, N. J. Bul. 676.
improvement in Gulf Coast Prairie, Tex. Bul. 570.
in limestone area, economy of, Ind. Bul. 454.
irrigated for dairy cattle, Oreg. Bul. 366.
management, N. H. Bul. 326.
permanent, establishing and maintaining, Ga. Bul. 207.
- Pastures—Continued.
permanent, fertilizer treatments, compared, N. J. Bul. 673.
top dressing, N. H. Bul. 320.
- Pea aphid, alfalfa as winter host, effect on canning peas, Wash. Bul. 389.
- Pea weevil, mechanized dusting equipment, Idaho Bul. 234.
- Peach trees—
chlorosis, N. Mex. Bul. 264.
Elberta, nitrogen fertilization, N. C. Bul. 322.
fertilization, fall, N. C. Bul. 321.
little-leaf, zinc deficiency, Fla. Bul. 344.
nitrogen and phosphorus effect, in sand culture, Ky. Bul. 410.
- Peaches—
"buttons" in, Ill. Bul. 458.
mosaic, Calif. Hilgardia, vol. 12, no. 10.
ovule development, and "buttons" in, Ill. Bul. 458.
packages, ventilated, Ill. Bul. 455.
precooling rail shipments, Ill. Bul. 455.
precooling tests, Ind. Bul. 439.
production, nitrogen from fertilizer sources, effect on, Del. Bul. 222.
varieties, Ky. Bul. 394.
varieties, adapted to mild winters, Calif. Bul. 632.
variety J. H. Hale, "buttons" in, Ill. Bul. 458.
zinc deficiency, Fla. Bul. 344.
- Peanut-cotton-hog area, farm business, analysis, Va. Tech. Bul. 67.
- Peanut meal, in laying mash, effect on egg production, hatchability and livability of chicks, N. C. Bul. 326.
- Peanuts—
culture, Miss. Bul. 341.
feeding for pork production, Miss. Bul. 341.
feeding pigs, and firm pork, N. C. Tech. Bul. 61.
processing, and microscopical studies, Ga. Bul. 205.
production, Miss. Bul. 341.
- Pears—
Anjou, irrigation, in clay adobe soil, Oreg. Bul. 374.
water deficit, effect on fruit, Oreg. Bul. 374.
- Peas—
Alaska and sweet, variety and strain experiments, Md. Bul. 425.
Austrian, as winter crop, Miss. Bul. 345.
canning, culture, Wis. Bul. 444.
canning, effect of alfalfa as winter host of pea aphid, Wash. Bul. 389.
cooked or canned, quality and vitamin content, Mont. Bul. 381.
dry, production and marketing, Wash. Bul. 391.
- Peat—
soils. See Soils, peat.
utilization, N. J. Bul. 681.

- Pectin solutions, viscosity, effect of metallic salts and pH, Del. Bul. 216.
- Pennsylvania agricultural experiment station, report, Pa. Bul. 382, 399.
- Peonies, cutting, storage and marketing studies, Ind. Bul. 444.
- People, rural, interests, as portrayed in weekly newspapers, Mich. Spec. Bul. 298.
- Peppergrass, perennial, chemical control, N. Dak. Bul. 292.
- Periplaneta* spp., Ind. Bul. 451.
- Peronospora destructor*, Calif. Hilgardia, vol. 12, no. 9.
- Peronospora spinaciae*, N. Y. (Cornell) Bul. 718.
- Peronospora tabacina*, Fla. Bul. 330, 342.
- Perosis—
 in chickens, cause and prevention, Okla. Bul. 243.
 in pheasants, Pa. Bul. 389.
- Personality development, children, Nebr. Res. Bul. 114.
- Phaseolus vulgaris*—
 red seed-coat color genetic analysis, Calif. Hilgardia, vol. 12, no. 9.
 See also Beans.
- Pheasants—
 perosis in, Pa. Bul. 389.
 ring-necked, rations for starting, Pa. Bul. 389.
- Phoma betae*, Wash. Bul. 379.
- Phosphate—
 deficiency in soils, prognosis, use of chemical data, Calif. Hilgardia, vol. 12, no. 5.
 fertilizer, investigations, Mont. Bul. 369, 378.
 fertilizers, in Arizona soils, Ariz. Tech. Bul. 82.
 fixation, kaolinite in, Calif. Hilgardia, vol. 12, no. 5.
 in Utah, Utah Bul. 290.
 investigations at Aberdeen branch station, Idaho Bul. 230.
 rich and poor land, effect on living conditions, Tenn. Pop. Bul. 1.
 soil, availability, Ariz. Tech. Bul. 82.
- Phosphoric acid, in preservation of grass silage, Mass. Bul. 362.
- Phosphorus—
 deficiency, cattle, Pa. Bul. 371.
 effect on earliness of cotton, La. Bul. 306.
 in pasture, hay, and other feeds, Wyo. Bul. 233.
 metabolism, wheat plant, Kans. Tech. Bul. 47.
 on apple and peach trees in sand culture, Ky. Bul. 410.
 solubility and fixation, effect of organic matter decomposition, Nebr. Res. Bul. 113.
- Photoelectric cotton fiber sorter, Ark. Bul. 381.
- Photography, color, in soil studies, Colo. Tech. Bul. 26.
- Photosynthate production, and "thin wood" pruning, Mich. Tech. Bul. 169.
- Photosynthesis, apple leaves, effect on sulfur fungicides, N. Y. (Cornell) Mem. 222.
- Phyllophaga* spp., Ky. Bul. 401.
- Phymatotrichum omnivorum*, Tex. Bul. 573.
- Phytomonas cerasi*, Calif. Hilgardia, vol. 12, no. 4.
- Phytomonas sepedonica*, Maine Bul. 396; Mont. Bul. 386.
- Phytonomus variabilis*. See *Hypera postica*.
- Phytophaga destructor*, Ind. Bul. 440; Kans. Tech. Bul. 49.
- Pickens County, rural school area, population study, S. C. Bul. 320.
- Pieris rapae*, N. Y. State Bul. 695.
- Pigeon pox virus, in vaccination against fowl pox, Ill. Bul. 470.
- Pigeons, paratyphoid of, N. C. Tech. Bul. 62.
- Pigs—
 carcass selling, Iowa Res. Bul. 270.
 crossbreeding for pork production, Iowa Bul. 380.
 feeding distillery slop, Ky. Bul. 408.
 feeding experiments, purebred and crossbred compared, Nev. Bul. 153.
 feeding peanuts, and firm pork, N. C. Tech. Bul. 61.
 feeding protein and vitamin supplements, N. Y. (Cornell) Bul. 730.
 feeding protein ration, Pa. Bul. 401.
 feeding sorghum grain, Nebr. Bul. 323.
 feeding soybeans, effect on gain and carcass, N. C. Tech. Bul. 63.
 feeding substitutes for corn, Ohio Bul. 607.
 feeding value of fortified cod-liver oil, N. J. Bul. 661.
 marketing practices, Iowa Res. Bul. 262.
 peanut fed, and firm pork, N. C. Tech. Bul. 61.
 protein level for, Pa. Bul. 401.
 purebred and crossbred, growth and gains, Nev. Bul. 153.
- Pinal County, Eloy district, groundwater supply, Ariz. Tech. Bul. 87.
- Pine—
 area, New Jersey, land development, N. J. Bul. 665.
 forest plantings, Pa. Bul. 394.
 white, pruning, physiological responses, Vt. Bul. 444.
 white, volume tables, Conn. (State) Bul. 427.
- Pinto beans. See Beans, pinto.
- Pinus strobus*—
 pruning, Vt. Bul. 444.
 volume tables, Conn. (State) Bul. 427.
- Pisé de terre. See Rammed earth.
- Pistol case bearer, studies, Pa. Bul. 376.
- Pituitary, anterior, mammogen content, duct growth factor, Mo. Res. Bul. 310.
- Pituitary glands, vitamin A-deficient rats, changes in, Ohio Bul. 610.
- Plant materials, carbohydrates in, determination, Mo. Res. Bul. 314.

- Plant nutrition, experiments in greenhouse, Ark. Bul. 401.
- Plant poisoning, livestock. *See* Plants poisonous to livestock.
- Plants—
- absorption of selenium, S. Dak. Tech. Bul. 2.
 - alien, growing without cultivation, Calif. Bul. 637.
 - containing nitrate, poisonous to livestock, Wyo. Bul. 241.
 - cross-pollinated, improvement by selection, Conn. (State) Bul. 435.
 - house, culture, Iowa Bul. P14.
 - mineral differences, effect on, Tenn. Pop. Bul. 1.
 - of Kansas, annotated list, Kans. [Un-numbered Pub.] 1940.
 - ornamental, propagation, Fla. Bul. 347.
 - poisonous and injurious, Colo., Bul. 455.
 - poisonous to livestock, Colo. Bul. 455; Wyo. Bul. 231, 241.
 - poisonous to sheep and goats, sacahuiste, Tex. Bul. 585.
 - range, of California foothills, composition and management, Calif. Bul. 627.
 - range, water requirements, Ariz. Tech. Bul. 80.
 - selenium in, S. Dak. Tech. Bul. 2.
 - water, nutritive value, Minn. Tech. Bul. 136.
- Plecoptera, of the world, catalog, bibliography, N. Y. (Cornell) Mem. 232.
- Plowing, depth, and crop yields, S. Dak. Bul. 344.
- Plums—
- bacterial canker, Calif. Hilgardia, vol. 12, no. 4.
 - biochemical studies, Minn. Tech. Bul. 143.
 - varieties, Ky. Bul. 394.
- Pneumatic tires, tractor, Iowa Bul. 382.
- Pneumonia. *See* Bronchopneumonia.
- Pocket gophers, distribution and variation, Tex. Bul. 590.
- Poi, feeding poultry, Hawaii Bul. 81.
- Poisoning—
- livestock, by plants. *See* Plants poisonous to livestock.
 - livestock, oat hay and straw, Wyo. Bul. 241.
- Polk County soils, Tex. Bul. 581.
- Pollination, cross, fruits vegetatively propagated, Conn. (State) Bul. 435.
- Pome flower and fruit, morphology, N. Y. (Cornell) Mem. 230.
- Ponds for farm water supply, Iowa Bul. P17.
- Population—
- agricultural, composition and characteristics, Calif. Bul. 630.
 - agricultural, of Arizona, Ariz. Tech. Bul. 88.
 - analytical study in rural school area, Lexington County, S. C. Bul. 325.
 - analytical study in rural school area, Pickens County, S. C. Bul. 320.
- Population—Continued.
- Black River settlement, La. Bul. 319.
 - composition and changes, N. Mex. Bul. 273.
 - drought areas, migration and adjustment to West, Wash. Bul. 378.
 - farm, mobility, in Montana communities, Mont. Bul. 371.
 - growth, composition, characteristics, Colo. Bul. 462.
 - migration from rural community, N. Y. (Cornell) Bul. 736.
 - natural increase, N. Y. (Cornell) Bul. 733.
 - natural increase and migration, Ky. Bul. 395.
 - rural, educational foundations for rehabilitation, Colo. Bul. 457.
 - rural, relief households, composition and characteristics, S. C. Bul. 326.
 - rural, resources, Mo. Res. Bul. 306.
 - rural sociology series, Wash. Bul. 378, 380.
 - tendencies, S. Dak. Bul. 327.
 - trends and adjustments, Ark. Bul. 388.
 - trends, 1860 to 1930, Colo. Bul. 462.
- Pork—
- firm, from peanut-fed pigs, N. C. Tech. Bul. 61.
 - firm, from soybean-fed pigs, N. C. Tech. Bul. 63.
 - killing, curing, and storing, Miss. Bul. 351.
 - production, cross-breeding hogs for, Iowa Bul. 380.
 - production, peanuts for, Miss. Bul. 341.
 - production, selecting, breeding, and feeding hogs for, Miss. Bul. 351.
 - soft and peanut feeding, N. C. Tech. Bul. 61.
- Potassium—
- effect on composition of tomato plant, N. H. Tech. Bul. 73.
 - effect on earliness of cotton, La. Bul. 306.
 - metabolism, wheat plant, Kans. Tech. Bul. 47.
- Potassium nitrate, as cause of poisonous properties of oat straw and hay, Wyo. Bul. 241.
- Potato flea beetle, history and control, Nebr. Bul. 327.
- Potato psyllid—
- and psyllid yellows, Nebr. Bul. 327.
 - and tomato psyllid, control, Colo. Bul. 454.
- Potato scab, control, by addition of mercury compounds to fertilizer mixture, N. Y. State Bul. 685.
- Potatoes—
- bacterial ring rot, dissemination by grasshoppers, N. Dak. Bul. 295.
 - bacterial ring rot, ultraviolet-light method for selecting seed stock, Mont. Bul. 386.

Potatoes—Continued.

- bacterial soft rot, Fla. Bul. 348; Maine Bul. 396.
- bacterial wilt, Fla. Bul. 348; Maine Bul. 396.
- cooking quality, N. H. Bul. 324.
- diseases, control, Ohio Bul. 615.
- diseases, control studies, Eastern Shore, Md. Bul. 433.
- experiments, N. H. Bul. 324.
- fertilizer experiments on marl soils, Fla. Bul. 352.
- fertilizers, response to, N. H. Bul. 324.
- Idaho, markets and market preferences, Idaho Bul. 231.
- insects, dusting and spraying, N. Mex. Bul. 266.
- marketing methods, Pa. Bul. 372.
- markets and market preferences, Idaho Bul. 231.
- seed, treatment, Semesan Bel and yellow oxide of mercury, compared, N. Y. State Bul. 694.
- soft rot, Fla. Bul. 348; Maine Bul. 396.
- soil management, Mich. Spec. Bul. 299.
- virus diseases, transmission by aphids, Maine Bul. 403.

Poultry—

- breeding for egg production, and body weight, Mass. Bul. 364.
- breeding for viability, Pa. Bul. 377.
- breeding tests on inheritance of broodiness, Mass. Bul. 377.
- Cornish, lethal mutation, studies, Conn. (Storrs) Bul. 233.
- Creeper. *See* Creeper fowl.
- cross-breeding for meat production, Hawaii Bul. 81.
- diseases, effect of environment on, Nebr. Res. Bul. 118.
- diseases, prevention and control, Kans. Bul. 284.
- feeding corn gluten meal, N. Y. (Cornell) Bul. 725.
- feeding dry skim milk, Pa. Bul. 381; Tex. Bul. 569.
- feeding legume silage, Tenn. Bul. 172.
- feeding millet, and oats, S. Dak. Bul. 337.
- feeding protein supplements, gross value, Wash. Bul. 388.
- feeding taro waste and poi, Hawaii Bul. 81.
- hatchery industry, Md. Bul. 426.
- judging, Miss. Bul. 344.
- marketing, economic problems, Calif. Bul. 642.
- metabolic and endocrine rhythms, Mo. Res. Bul. 315.
- Rhode Island Reds, fertility, Mass. Bul. 359.
- See also* Broilers; Capons; Chickens; Chicks; Ducks; Hens; Pullets; Turkeys.

Power—

- alcohol from farm products, Iowa Corn Res. Inst. Cont., vol. 1, no. 3.

Power—Continued.

- farm, cost and utilization, Iowa Res. Bul. 258.
- tractor, cost, Nebr. Bul. 324.
- Pox, in domestic fowl, Ill. Bul. 470.
- Precipitation—
 - records, N. Mex. Bul. 269.
 - See also* Rainfall.
- Pregnancy disease of sheep, Mo. Bul. 412.
- Price conditions, and farm management, Ind. Bul. 452.
- Prices—
 - agricultural products, Mo. Res. Bul. 312; Pa. Bul. 384.
 - agricultural products, seasonal changes, Iowa Bul. P5.
 - and production, Louisiana farms, La. Bul. 324.
 - apples, and quality, N. Y. (Cornell) Mem. 220.
 - beef cattle, Ind. Bul. 445.
 - berries, N. H. Bul. 321.
 - cauliflower, relation to quality, N. Y. (Cornell) Bul. 716.
 - cotton, N. C. Bul. 323; Tech. Bul. 64.
 - farm products, Miss. Bul. 332.
 - farm products, statistics, thirty years, Ky. Bul. 403.
 - farm, statistics, Mo. Res. Bul. 312; Okla. Bul. 238.
 - food, relation to amounts, styles, and containers, Vt. Bul. 448.
 - fruit and vegetables, Ind. Bul. 455.
 - livestock and livestock products, seasonal changes, Iowa Bul. P5.
 - milk, Mich. Spec. Bul. 300.
 - milk and cream, in milk control areas, Maine Bul. 399.
 - poultry, economic problems, Calif. Bul. 642.
 - sweetpotatoes, La. Bul. 310.
 - tobacco, Burley, Ky. Bul. 409.
 - tomatoes, canned, retail, Ind. Bul. 438.
 - variations in grocery stores, Vt. Bul. 466.
- Prickly pear, eradication and control, Tex. Bul. 575.
- Pronotum of roach, penetration of liquids, N. H. Tech. Bul. 74.
- Propionic acid bacteria, in cheese making, Iowa Res. Bul. 264.
- Proso—
 - culture and use, Oreg. Bul. 361.
 - millet, in poultry ration, S. Dak. Bul. 337.
- Protein—
 - concentrates, vegetable, in raising turkeys, Mo. Bul. 414.
 - feeds, feeding chicks, Tex. Bul. 588.
 - intake, chickens, various stages of growth and development, N. H. Bul. 312.
 - level of ration, effect on growth of chicks, Nebr. Res. Bul. 108.
 - levels of rations, for White Leghorn pullets, Del. Bul. 219.
 - levels in turkey ration, Ind. Bul. 448.
 - milk, Wis. Bul. 447.

Protein—Continued.

milk, blood precursors, Mo. Res. Bul. 296.

nucleates of *Brucella*, biological properties and chemical constitution, Mich. Tech. Bul. 168.

requirements, White Leghorn pullets, Wash. Bul. 383.

supplements, feeding poultry, gross value, Wash. Bul. 388.

supplements, for growing and fattening pigs, N. Y. (Cornell) Bul. 730.

Providence County, land utilization, R. I. Bul. 275.

Provitamin A content, feed, Okla. Bul. 242.

Prunes—

dried, marketing through dried prune packing associations, Oreg. Bul. 378.

ground, digestibility, by sheep, Calif. Bul. 635.

Pruning—

apple trees, young, Mo. Res. Bul. 313.

fruit trees, Iowa Bul. P10.

grapevines, Ariz. Bul. 162; Iowa Bul. P7.

"thin wood", and photosynthate production, Mich. Tech. Bul. 169.

white pine, Vt. Bul. 444.

Prunus spp.—

bacterial canker, Calif. Hilgardia, vol. 12, no. 4.

mosaic disease, Calif. Hilgardia, vol. 12, no. 10.

Psorophora spp., Ark. Bul. 377.

Psyllid—

on tomatoes, control, Colo. Bul. 454.

yellow, and potato psyllid, Nebr. Bul. 327.

Public domain, land classification, Mo. Bul. 421.

Public health. *See* Health, public.

Publications. Virginia agricultural experiment station index and list, 1888-1938, Va. [Unnumbered Pub.] 1938.

Puccinia coronata avenae, Ark. Bul. 391.

Pullets—

feeding protein feeds, Wash. Bul. 383.

feeding, protein levels of rations, Del. Bul. 219.

peanut meal in laying mash, effect on chicks, N. C. Bul. 326.

White Leghorn, protein levels of rations, Del. Bul. 219.

White Leghorn, protein requirements, Wash. Bul. 383.

Purchasing—

associations, cooperative, N. Dak. Bul. 294.

clothing, consumer demand, Mo. Res. Bul. 300.

cooperative, Wash. Bul. 371.

cooperative, farm supplies, W. Va. Bul. 297.

household, clothing, Vt. Bul. 451.

household, food, Vt. Bul. 448.

Purchasing—Continued.

household textiles, Mo. Res. Bul. 301.

silk dresses and yard goods, Minn. Misc.

Rpt. 1.

Pyrethrum—

fly sprays, terpene ethers in, Del. Bul. 217.

powder, in cabbage worm control, N. Y. State Bul. 695.

Pythium arrhenomanes, Calif. Bul. 629.

Pythium root rot of milo, resistant varieties, Calif. Bul. 629.

Quail (bobwhite) populations, and woodland management, Tex. Bul. 592.

Rabbits, atherosclerosis in, effect of kelp and mineral supplements on, Mass. Bul. 374.

Rainfall—

and yield of cotton, Ark. Bul. 376.

cropping, and cultural methods, effect on soil and water losses, Ark. Bul. 380.

Rammed earth walls, paints and plasters for, S. Dak. Bul. 336.

Rams, purebred, on native ewes, and changes in meat and wool characteristics, N. C. Tech. Bul. 60.

Ranch and range, forage production costs, Nev. Bul. 150.

Ranches—

minimum sized, planning. S. Dak. Bul. 346.

organization and range land use, Oreg. Bul. 381.

Ranching areas, types, N. Mex. Bul. 261, 267.

Randomized block arrangement in cotton flea hopper control, La. Bul. 323.

Randomized block layouts, formulas for finding estimates for missing plots, Mich. Tech. Bul. 165.

Range lambs, feeding, Kans. Bul. 287.

Range land—

sandhill, vegetative composition and grazing capacity, Nebr. Res. Bul. 117.

use, and ranch organization, Oreg. Bul. 381.

Ranges—

grasses, Hawaii Bul. 82; Mont. Bul. 375.

improvement through conservation of flood waters, Mont. Bul. 380.

management, composition of California foothill plants as factor in, Calif. Bul. 627.

plants, water requirements, Ariz. Tech. Bul. 80.

resources, Rich County, Utah Bul. 291.

restoring, Colo. Bul. 459.

sheep, production and earning power, Nev. Bul. 151.

vegetation, composition and utilization, Tex. Bul. 586.

Ranunculus, nature of the carbohydrates of, Minn. Tech. Bul. 136.

Rapides Parish, farm management survey, La. Bul. 317.

Raritan River pollution, studies, N. J. Bul. 659.

- Raspberries—
 inbreeding and crossing, Conn. (State) Bul. 435.
 trailing, characteristics and breeding, N. C. Tech. Bul. 65.
 varieties, Ky. Bul. 396.
- Rats—
 vitamin A-deficient, changes in pituitary glands, Ohio Bul. 610.
 white-throated wood rat, Ariz. Tech. Bul. 86.
- Real estate—
 assessment, land classification as aid, Mo. Bul. 421.
 farm, taxation, Kans. Bul. 283.
 mortgage indebtedness, Mont. Bul. 383.
 Reclamation projects, and land classification, Mo. Bul. 421.
- Recreational land use, land classification in relation to, Mo. Bul. 421.
- Red copper oxide-oil emulsion spray, downy mildew of tobacco, Fla. Bul. 330.
- Red spiders—
 of Connecticut, Conn. (State) Bul. 431.
 on strawberry, sulfur with copper sprays for, La. Bul. 323.
- Reforestation, Chenango and Madison Counties, N. Y. (Cornell) Bul. 712.
- Refrigerated storages—
 farm, N. Y. (Cornell) Bul. 724.
 for apples, Mass. Bul. 360.
- Refrigeration—
 milk at farm, Pa. Bul. 375.
 peaches, in rail shipments, Ill. Bul. 455.
 strawberries, cantaloupes, and peaches, Ind. Bul. 439.
- Rehabilitation, rural educational foundations, Colo. Bul. 457.
- Relief—
 dependent children, S. Dak. Bul. 332.
 households, composition and characteristics, S. C. Bul. 326.
 population, educational deficiency, Colo. Bul. 457.
- Renting—
 farm productivity, and ability to pay rent, Mo. Res. Bul. 308.
 landlord-tenant relationship, Mo. Bul. 409.
- Respiration, apple leaves, effect of sulfur fungicides, N. Y. (Cornell) Mem. 222.
- Revenues, public, effect of Homestead exemption act, S. C. Bul. 323.
- Reynolds County, land and fiscal problems, Mo. Res. Bul. 324.
- Rhabdopterus picipes*, N. Y. State Bul. 692.
- Rhizobia* strains, and symbiobility of leguminous plants, N. Y. (Cornell) Mem. 221.
- Rhode Island Reds. *See* Poultry, Rhode Island Reds.
- Rhode Island Reds, hens. *See* Hens, Rhode Island Red.
- Rhododendron, cuttings, N. J. Bul. 666.
- Rhubarb—
 chemical investigation, Conn. (State) Bul. 424.
 leaves, chemical changes during culture in light and darkness, Conn. (State) Bul. 424.
 leaves, chemical changes during culture in water and glucose solution, Conn. (State) Bul. 424.
- Riboflavin content, pinto beans, effect of cooking, N. Mex. Bul. 268.
- Rice—
 area, soils, chemical characteristics, La. Bul. 307.
 black kernal and white tip, Tex. Bul. 584.
 byproducts, feeding pigs, Ohio Bul. 607.
 field mosquitoes, biologies, Ark. Bul. 377.
 irrigation, water resources, Ark. Bul. 371.
 lands, improving beef cattle pasture on, La. Bul. 305.
 rough, storage and marketing, Ark. Bul. 395.
 stem rot, effects of fertilizers, Ark. Bul. 383.
 variety experiments, Ark. Bul. 403.
- Rich County, range resources, Utah Bul. 291.
- River pollution, Raritan River, N. J. Bul. 659.
- Roaches—
 American, penetration of liquids through pronotum, N. H. Tech. Bul. 74.
 cockroaches, biology, Ind. Bul. 451.
- Roasters—
 electric performance, Iowa Res. Bul. 282.
 electric, study, Va. Bul. 325.
- Robertson County, farm income and family living, Ky. Bul. 405.
- Rocks, selenium in, S. Dak. Tech. Bul. 2.
- Rolls, home and commercially produced, cost, Nebr. Res. Bul. 115.
- Root knot nematode, tomatoes, Ind. Bul. 434.
- Root rot of cotton, Tex. Bul. 573.
- Rose leaf beetle, history and control, Pa. Bul. 387.
- Rose plants, removal of leaves at digging time, Oreg. Bul. 385.
- Roses—
 mosaic, Calif. Hilgardia, vol. 12, no. 10.
 powdery mildew, effect of temperature and humidity, N. Y. (Cornell) Mem. 223.
- Rosin residue emulsion, as sticker for lead arsenate sprays, Del. Bul. 221.
- Rosy apple aphids, sprays for, Pa. Bul. 376, 390; Va. Bul. 322.
- Rotenone-bearing powder, in cabbage worm control, N. Y. State Bul. 695.
- Rotenone fly sprays, terpene ethers in, Del. Bul. 217.
- Roughages, feeding dairy cattle, Wyo. Bul. 237.
- Round-headed apple-tree borer, biology and control, N. Y. State Bul. 688.

- Rubber tires—
 carts and trailers, home-made, S. Dak. Bul. 333.
 for farm machinery, Iowa Bul. P9.
Rubus parvifolius, breeding, N. C. Tech. Bul. 65.
Ruppia, nature of the carbohydrates of. Minn. Tech. Bul. 136.
 Rural life, forces influencing, Pa. Bul. 388.
 Rural school. *See* School.
 Rural social areas. *See* Social areas, rural.
 Rural-urban fringe, land classification along. Mo. Bul. 421.
 Rural youth. *See* Youth, rural.
 Rural zoning, Corson County, S. Dak. Bul. 345.
 Russian knapweed, chemical control, N. Dak. Bul. 292.
 Rusts, oats, crown rust, longevity of urediospores. Ark. Bul. 391.
 Rye, feeding pigs, Ohio Bul. 607.
 Sacahuiste, poisonous to sheep and goats. Tex. Bul. 585.
 Sago imports, effect on corn wet-milling industry, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
Saissetia oleae, Calif. Hilgardia, vol. 13, no. 7.
 Saline soils. *See* Soils, saline.
 Salinity conditions, Big Horn River, Wyo. Bul. 240.
Salmonella aertrycke, Ky. Bul. 400.
Salmonella cholerae-suis group, biochemical and serological studies. Ky. Bul. 404.
Salmonella typhi-murium—
 and paratyphoid of pigeons, N. C. Tech. Bul. 62.
 biological types, Ky. Bul. 400.
 Sand culture, growth of apple and peach trees, with nutrient solutions, Ky. Bul. 410.
 Sand wireworms, control, La. Bul. 323.
 Sandhill range lands, vegetation and grazing capacity, Nebr. Res. Bul. 117.
 Sandy Creek soil conservation area, farming studies, Ga. Bul. 203.
 Santa Cruz County, natural land divisions, utilization and adaptation, Calif. Bul. 638.
Superda candida, N. Y. State Bul. 688.
 Sardine meal, feeding poultry, Tex. Bul. 569.
 Sauerkraut, canned, chemical composition, and quality, N. Y. State Bul. 693.
 Scale insects—
 sprays for, Va. Bul. 322.
See also Black scale; Brown elm scale.
Schistocerca americana, Mo. Bul. 406.
 School area—
 analytical study, Lexington County, S. C. Bul. 325.
 analytical study, Pickens County, S. C. Bul. 320.
 Schools—
 changes in enrollment and number of persons of school age, S. Dak. Bul. 338.
 high and post-high records of rural boys, Pa. Bul. 374.
 Schools—Continued.
 services in rural communities, Ark. Bul. 398.
Sciurus carolinensis carolinensis, Tex. Bul. 591.
Sclerotinia fructicola, germination of conidia, toxicity of copper to, N. Y. (Cornell) Mem. 233.
Sclerotium oryzae, Ark. Bul. 383.
Scolytus multistriatus, carrying Dutch elm disease pathogen, N. Y. (Cornell) Bul. 740.
 Scurry County, soils, Tex. Bul. 581.
 Seed—
 coniferous trees, testing, N. Y. State Tech. Bul. 255.
 flax, production, Wash. Bul. 370.
 inspection, N. H. Bul. 316, 328; N. J. Bul. 672; Vt. Bul. 454, 465.
 lespedeza, seed harvesting equipment, Tenn. Bul. 171.
 testing, N. H. Bul. 316, 328.
 treatment, corn, oats, barley, Ark. Bul. 389.
 Selenium in rocks, soils, and plants, S. Dak. Tech. Bul. 2.
 Semesan Bel, and yellow oxide of mercury, for potato seed treatment, compared, N. Y. State Bul. 694.
 Sewage, sludge, hydrolytic enzymes in, N. J. Bul. 669.
 Sharecroppers, economic studies, S. C. Bul. 328.
 Sheep—
 black disease, Oreg. Bul. 360.
 digestibility, prunes, winery pomace, avocado meal, asparagus butts, and funugreek meal, Calif. Bul. 635.
 infectious necrotic hepatitis, Oreg. Bul. 360.
 managing farm flock for profit, Idaho Bul. 228.
 poisoning by sacahuiste, Tex. Bul. 585.
 pregnancy disease, Mo. Bul. 412.
 range, production and earning power, Nev. Bul. 151.
 silicon diet, and silicon content of wool, Ark. Bul. 375.
See also Ewes; Lambs; Rams.
 Shelby County, soil survey, Ill. Soil Rpt. 66.
 Sickness—
 and medical care, coal mining population, Ark. Bul. 394.
 in negroes, Delta area, Ark. Bul. 372.
 Silage—
 and green crops, carotene content, N. J. Bul. 683.
 conservation of alfalfa, timothy, and soybeans, nutrients as, Vt. Bul. 459.
 grass, feeding dairy cattle, Wash. Bul. 386.
 grass, practices and costs of producing, N. J. Bul. 684.
 grass, preparation and feeding, Mass. Bul. 362.
 legume, feeding poultry, Tenn. Bul. 172.

- Silicon content of wool, and dietary silicon, Ark. Bul. 375.
- Silk dresses and yard goods, purchasing practices, Minn. Misc. Rpt. 1.
- Silver nitrate, recovering HCN from sorghum, S. Dak. Tech. Bul. 1.
- Sinox, spray in weed control, Calif. Bul. 634.
- Sirup—
corn, use in frozen desserts, N. Y. State Bul. 696.
maple, production, Md. Bul. 431.
- Skeletal parts of experimental animals, composition, W. Va. Bul. 294.
- Skim milk—
dried, feeding poultry, Tex. Bul. 569.
dry, in rations for fowls, Pa. Bul. 381.
- Sludge, activated, hydrolytic enzymes in, N. J. Bul. 669.
- Small fruits—
varieties for Kentucky, Ky. Bul. 396.
See also Berries; Blackberries; Blueberries; Cranberries; Grapes; Raspberries; Strawberries.
- Small grain. *See* Grain.
- Social agencies, rural, Mo. Res. Bul. 307.
- Social and economic study—
central Pennsylvania community, Pa. Bul. 388.
rural youth, N. C. Bul. 324.
- Social areas, rural, in Missouri, Mo. Res. Bul. 305.
- Social change in South Dakota, basic trends, S. Dak. Bul. 327, 334, 338.
- Social characteristics, part-time farmers, Wash. Bul. 380.
- Social conditions, Delta area, Utah Bul. 288.
- Social organization in Wilton, Conn. (Storrs) Bul. 230.
- Social study, sugarcane farms, La. Bul. 320.
- Socioeconomic status, farm families, Okla. Tech. Bul. 9.
- Sod webworms, control, Ky. Bul. 391.
- Sodium arsenite—
in control of crickets, Mont. Bul. 370.
sterilization of soils, and arsenite fixation, Calif. Hilgardia, vol. 12, no. 3.
- Sodium chlorate, toxicity in soils, Calif. Hilgardia, vol. 12, no. 3.
- Sodium dinitro-ortho-cresylate spray for weed control, Calif. Bul. 634.
- Sodium nitrate and green manure on grain, compared, N. J. Bul. 677.
- Soil and field crop management, N. Y. (Cornell) Bul. 746.
- Soil conservation—
and contour farming, Iowa Bul. P11.
effect of rainfall, cropping, and cultural methods on soil and water losses, Ark. Bul. 380.
area, Jackson County, economic aspects of agriculture, W. Va. Bul. 291.
economic implications, Marshall County, W. Va. Bul. 293.
experiments, Spur, Tex. Bul. 587.
farmers' opinion of, Iowa Bul. 381.
operations, land classification as aid, Mo. Bul. 421.
- Soil conservation—Continued.
relationship of farming systems, Wash. Bul. 374.
service program, effect on livestock system, Iowa Bul. 381.
tobacco farms, Va. Bul. 327.
Willamette Valley, Oreg. Bul. 365.
- Soil erosion—
and contour farming, Iowa Bul. P11.
and rainfall, cropping, and cultural methods, Ark. Bul. 380.
and run-off, control, Tex. Bul. 587.
and tobacco enterprise, Va. Bul. 327.
control, and Soil Conservation Service, Iowa Bul. 381.
control in Sandy Creek soil conservation area, Ga. Bul. 203.
control measures in soil conservation, W. Va. Bul. 293.
effect of soil type, slope, and surface conditions on intake of water, Nebr. Res. Bul. 112.
versus water conservation, Mont. Bul. 380.
- Soil experiment fields, crop and fertilizer experiment, Ky. Bul. 397.
- Soil fertility—
maintenance and profitable farming, Ohio Bul. 604.
Willamette Valley, Oreg. Bul. 365.
- Soil moisture—
electrical resistance method for measurement, Mich. Tech. Bul. 172.
root distribution and aeration in nut production, Oreg. Bul. 372.
- Soil morphology and tree growth, N. Y. (Cornell) Mem. 229.
- Soil productivity, annual changes, evaluating, Mo. Bul. 405.
- Soil profiles, color photography of, Colo. Tech. Bul. 26.
- Soil science, and agronomy, contributions to land classification, Mo. Bul. 421.
- Soil survey—
Illinois, Boone County, Ill. Soil Rpt. 65.
Illinois, Cumberland County, Ill. Soil Rpt. 69.
Illinois, Dewitt County, Ill. Soil Rpt. 67.
Illinois, Jasper County, Ill. Soil Rpt. 68.
Illinois, Shelby County, Ill. Soil Rpt. 66.
Illinois, Stark County, Ill. Soil Rpt. 64.
Iowa, Franklin County, Iowa Soil Rpt. 79.
Montana, Musselshell County, Mont. Bul. 374.
- Soil temperature, effect on water absorption by cucumber, Mo. Res. Bul. 309.
- Soil testing, operation, interpretation, and application, Pa. Bul. 398.
- Soil types, productivity rating, Mo. Bul. 421.
- Soils—
alkali, reclamation in Yakima Valley, Wash. Bul. 376.
alkali, reclamation investigations, Idaho Bul. 233.
alkaline-calcareous, fertilization of lettuce on, Ariz. Tech. Bul. 85.

Soils—Continued.

- alkaline, phosphorus solubility and fixation, and organic matter decomposition, Nebr. Res. Bul. 113.
- analyses, North Atlantic States, N. J. [Unnumbered Pub.] 1940.
- arsenic in, toxicity studies, Calif. Hilgardia, vol. 12, no. 3.
- Azotobacter* distribution and activity in, Ariz. Tech. Bul. 83.
- characteristics, of Connecticut land types, Conn. (State) Bul. 423.
- chemical composition, Tex. Bul. 581.
- citrus groves, chemical studies, Fla. Bul. 340.
- classification, relation to land classification, Mo. Bul. 421.
- clay adobe, irrigation of pears in, Oreg. Bul. 374.
- color photography in studies, Colo. Tech. Bul. 26.
- Dekalb, fertility studies, Pa. Bul. 370.
- desert, effect of irrigation and cropping, N. Mex. Bul. 263.
- development, chemical aspects, and land classification, Mo. Bul. 421.
- development, physical aspects, and land classification, Mo. Bul. 421.
- effect of soybeans on, Ill. Bul. 456.
- Everglades, celery production, Fla. Bul. 333.
- fertility studies on Dekalb soil, Pa. Bul. 370.
- flood deposits on, effect of, Vt. Bul. 445.
- Florida, Fla. Bul. 334.
- iodine in, Tex. Bul. 579.
- legumes in improvement, Miss. Bul. 336.
- Louisiana, nutrients in, determination by chemical methods, La. Bul. 313.
- macro and micro elements, distribution peninsular Florida, Fla. Bul. 341.
- macrostructure, as affected by cultural treatments, Calif. Hilgardia, vol. 12, no. 6.
- management experiments, Ky. Bul. 397.
- marl, potato fertilizer experiments, Fla. Bul. 352.
- mineral differences, effect on, Tenn. Pop. Bul. 1.
- nitrogen and organic carbon, effect of cropping systems and fertilizers on, Kans. Tech. Bul. 45.
- orchard, management, N. Y. State Bul. 691; Pa. Bul. 373.
- organic carbon of, effect of cropping and fertilizers, Kans. Tech. Bul. 45.
- organic carbon of, effect of rotation and fertilizers, N. H. Bul. 324.
- overliming injury, Vt. Bul. 460.
- pasteurizing, electric devices for, N. Y. (Cornell) Bul. 731.
- peat, humic acids, neutralization curves, N. Y. (Cornell) Mem. 219.
- phosphate, availability, Ariz. Tech. Bul. 82.

Soils—Continued.

- phosphate deficiency, use of chemical data in prognosis, Calif. Hilgardia, vol. 12, no. 5.
 - phosphate fixation, kaolin in, Calif. Hilgardia, vol. 12, no. 5.
 - potato management, Mich. Spec. Bul. 299.
 - production and land valuation, Iowa Res. Bul. 252.
 - range and cultivated, *Azotobacter* in, Ariz. Tech. Bul. 83.
 - rapid tests for estimating fertility needs, Mo. Bul. 404.
 - reaction to treatment with mercury compounds in potato scab control, N. Y. State Bul. 685.
 - rice area, chemical characteristics, La. Bul. 307.
 - saline, reclamation in Yakima Valley, Wash. Bul. 376.
 - sandy, Connecticut Valley, management for vegetable production, Conn. (State) Bul. 439.
 - selenium in, S. Dak. Tech. Bul. 2.
 - sodium chlorate toxicity, Calif. Hilgardia, vol. 12, no. 3.
 - sterilization with sodium arsenite and fixation of arsenic, Calif. Hilgardia, vol. 12, no. 3.
 - structural conditions, Calif. Hilgardia, vol. 12, no. 6.
 - Texas, Cass, Dickens, Falls, Hardeman, Polk, Scurry, and Wheeler Counties, Tex. Bul. 581.
 - types, and family conditions in Delta area, Utah Bul. 288.
 - water and nitrogen leaching, lysimeter experiments, Conn. (State) Bul. 429.
 - Willamette Valley, composition, rating and conservation, Oreg. Bul. 365.
 - zinc in, chemical status, Calif. Hilgardia, vol. 13, no. 1.
- Sorghum—
- culture, Nebr. Bul. 329.
 - culture and use, Oreg. Bul. 361.
 - experiments, N. Mex. Bul. 271.
 - grain, feeding pigs, Nebr. Bul. 323.
 - HCN content, S. Dak. Tech. Bul. 1.
 - production and variety tests, Nebr. Bul. 329.
- See also* Milo; Sudan grass.
- Southwick-Agawam area, Springfield milkshed, milk cartage, Mass. Bul. 363.
- Soybean nutrients, conservation as silage and hay, Vt. Bul. 459.
- Soybean oil meal—
- feeding growing lambs, Pa. Bul. 397.
 - feeding pigs, Pa. Bul. 401.
 - feeding poultry, Tex. Bul. 569; Wash. Bul. 388.
- Soybeans—
- adaptation and utilization, Nebr. Bul. 322.
 - as source of fat in dairy ration, N. Y. (Cornell) Bul. 722.

Soybeans—Continued.

- balanced incomplete block and lattice square design for testing yield differences of varieties, Iowa Res. Bul. 257.
- cultural methods, Kans. Bul. 282.
- culture, Nebr. Bul. 322.
- culture, in the Yazoo-Mississippi Delta, Miss. Bul. 331.
- edible varieties, Ill. Bul. 453.
- effect on soil productivity, Ill. Bul. 456.
- feeding pigs, effect on gains and carcass, N. C. Tech. Bul. 63.
- food use, Ill. Bul. 453, 471; Miss. Bul. 331.
- harvesting, methods and machinery, Va. Bul. 319.
- investigations, Ill. Bul. 462.
- planting, methods and rates, Ark. Bul. 390.
- production, Kans. Bul. 282.
- seeding, storage, Ill. Bul. 462.
- varieties, Ill. Bul. 462; Miss. Bul. 331.
- varieties for hay and grain, R. I. Bul. 271.
- vegetable type, range of adaptation, Ill. Bul. 471.
- Spayed heifers, efficiency in feed lot, Calif. Bul. 645.
- Sphaerotheca pannosa*, N. Y. (Cornell) Mem. 223.
- Spinach—
 - downy mildew, N. Y. (Cornell) Bul. 718.
 - photoperiodic response, effect of temperature, N. Y. (Cornell) Mem. 218.
- Spray liquids, surface tension and contact angle, Calif. Hilgardia, vol. 12, no. 11.
- Spray materials, substitute, Mo. Res. Bul. 316.
- Spraying, program, fruit, Ohio Bul. 599.
- Sprays—
 - apple, deposition and retention, Pa. Bul. 400.
 - bordeaux, sulfur, mercury, and copper, in control of citrus scabs, Fla. Bul. 337.
 - contact, La. Bul. 323.
 - dormant, for rosy apple aphids and scale insects, Va. Bul. 322.
 - lead arsenate, rosin residue emulsion as sticker, Del. Bul. 221.
- Springfield—
 - area, costs of milk, Mass. Bul. 365.
 - milkshed, milk cartage, Mass. Bul. 363.
- Spruce budworm, history and control, Minn. Tech. Bul. 142.
- Squash bug, biology, and tachinid parasite on, Conn. (State) Bul. 440.
- Squirrels, gray, population study, eastern Texas, Tex. Bul. 591.
- Staphylococci, udder, characteristics, Conn. (Storrs) Bul. 231.
- Starch—
 - products from corn, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
 - root, industry, domestic, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
- Stark County, soil survey, Ill. Soil Rpt. 64.

Starters, preparation, cheese, butter, and buttermilk, Oreg. Bul. 379.

State owned land in Arkansas, Ark. Bul. 370.

Statistics, agriculture. *See* Agriculture, statistics.

Steers—

- feeding cottonseed meal and cake, Miss. Bul. 329.
- finishing with grass and grain, W. Va. Bul. 296.
- forage consumption, effect of species and stage of maturity of plants, Ill. Bul. 454.
- yearlings, fattening with cottonseed meal, N. Mex. Bul. 262.
- Stem rot of rice, effect of fertilizers, Ark. Bul. 383.
- Stictoccephala festina*, La. Bul. 323.
- Stinking smut. *See* Bunt.
- Stone flies, catalog, bibliography, N. Y. (Cornell) Mem. 232.
- Stone fruit, bacterial canker, Calif. Hilgardia, vol. 12, no. 4.

Storage—

- apples, houses, Mass. Bul. 360.
- cabbage, effect on vitamin content, Mont. Bul. 379.
- cold storage lockers, Minn. Bul. 345; N. Y. State Bul. 690; Tenn. Bul. 168.
- cucumber, lengthening period, Tex. Bul. 576.
- eggs, effect of high humidity, N. J. Bul. 682.
- eggs, mold on, Mich. Tech. Bul. 174.
- food, freezing locker plants, N. Y. State Bul. 690.
- onions, effect on vitamin content, Mont. Bul. 379.
- refrigerated, farm, N. Y. (Cornell) Bul. 724.
- rice, farm, Ark. Bul. 395.
- soybeans, Ill. Bul. 462.
- vegetables, use of wax emulsion, N. Y. (Cornell) Bul. 723.

Stored foods, insects, Minn. Bul. 341.

Stored grain and seeds, insects, Minn. Bul. 340.

Stored string beans, vitamin content, Mont. Bul. 373.

Stores—

- grocery, price variations, Burlington, Vt. Bul. 466.
- ice cream, modern trends, Mo. Bul. 420.

Stoves—

- gas, selected types, studies, Nebr. Res. Bul. 111.
- kerosene, performance analysis, Maine Bul. 394.

See also Roasters.

Strawberries—

- breeding new varieties, N. C. Bul. 320.
- cultural practices affecting profits, Mich. Tech. Bul. 162.
- development of resistance to cold, Minn. Tech. Bul. 135.
- hardiness in, Minn. Tech. Bul. 135.

- Strawberries—Continued.
 inbreeding and crossing, Conn. (State) Bul. 435.
 mulches, and winter soil temperature, Minn. Tech. Bul. 135.
 precooling tests, Ind. Bul. 439.
 production, profits, factors affecting, Mich. Tech. Bul. 162.
 red spider on, La. Bul. 323.
 varieties, Ky. Bul. 396.
 varieties, new, N. C. Bul. 320.
 variety Massey, N. C. Bul. 327.
- Strawberry crown borer, life cycle and control measures, Ky. Bul. 389.
- Strawberry plants, dormant, respiratory rate, Minn. Tech. Bul. 135.
- Streptococcus agalactiae*, Conn. (Storrs) Bul. 231.
- Suburbanization in Connecticut, studies, Conn. (Storrs) Bul. 230.
- Sudan grass—
 culture and use, Oreg. Bul. 361.
 meal, feeding chicks, Mont. Bul. 116.
- Sugar beets—
 black root, control, Wash. Bul. 379.
 costs and returns, Mich. Spec. Bul. 305.
 culture, Minn. Bul. 349.
 curly top and leafhopper, Calif. Hilgardia, vol. 12, no. 8.
 production, economics of, Colo. Bul. 453.
- Sugar cane. *See* Sugarcane.
- Sugar, maple, products, industry, Md. Bul. 431.
- Sugar mills, financial results of operation, La. Bul. 316.
- Sugar products from corn, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
- Sugarcane—
 area, farm management and cost study, La. Bul. 314.
 beetle, effect of lime in reducing injury, La. Bul. 323.
 borer, cane varieties susceptible to injury, La. Bul. 323.
 borer, *Trichogramma* spp. as parasite, La. Bul. 323.
 farms, labor and tenancy study, La. Bul. 320.
 farms, large, financial results of operation, La. Bul. 315.
 mosaic, seed selection and roguing in control, La. Bul. 308.
 varieties susceptible to borer injury, La. Bul. 323.
- Sulfur—
 dioxide, effect on nutritive value of alfalfa hay, N. Y. (Cornell) Mem. 227.
 fungicides, effect on photosynthesis and respiration of apple leaves, N. Y. (Cornell) Mem. 222.
- Sulfuring fruits, for drying, Calif. Bul. 636.
- Supella supellectilium*, Ind. Bul. 451.
- Sutton County, range vegetation analyses, Tex. Bul. 586.
- Sweet peas, mineral nutrient deficiencies, effect, N. Y. (Cornell) Bul. 745.
- Sweetclover, drainage requirements, laboratory study, Minn. Tech. Bul. 144.
- Sweetpotato farms, for starch production, factors for success, Miss. Bul. 352.
- Sweetpotato flour, nutritional studies, S. C. Bul. 329.
- Sweetpotato weevil—
 flight observations, La. Bul. 323.
 overwintering, La. Bul. 323.
 wild hosts, La. Bul. 323.
- Sweetpotatoes—
 culture, Miss. Bul. 327.
 dehydrated, biochemical and nutritional studies, S. C. Bul. 329.
 growing, Miss. Bul. 327.
 marketing, carlot and truck, La. Bul. 310.
 plant production, Miss. Bul. 349.
 prices, La. Bul. 310.
 production and marketing, Md. Bul. 436.
- Swine—
 breeding for pork production, Iowa Bul. 380; Miss. Bul. 351.
 dairy-hog farms, Iowa Res. Bul. 275.
 equipment for production, Kans. Bul. 286.
 feeding for pork production, Miss. Bul. 351.
 feeding, inadequacy of concentrates used, Mo. Res. Bul. 321.
 houses, Kans. Bul. 286.
 inbreeding and outbreeding, experimental study, Okla. Tech. Bul. 7.
 necrotic enteritis, relation to nutrition, Mich. Tech. Bul. 170.
 nutrition, and development of necrotic enteritis, Mich. Tech. Bul. 170.
See also Pigs.
- Symbiosis, leguminous plants, and *Rhizobia* strains, N. Y. (Cornell) Mem. 221.
- Syrphidae of Minnesota, Minn. Tech. Bul. 140.
- Tabanidae of Delaware, Del. Bul. 226.
- Tachinid parasite on squash bug, Conn. (State) Bul. 440.
- Tankage—
 feeding pigs, Pa. Bul. 401.
 for fattening beef calves, S. Dak. Bul. 329.
- Tapeworms, species, and host catalog, Okla. Tech. Bul. 8.
- Tapioca imports, effect on corn wet-milling industry, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.
- Taro—
 varieties, Hawaii Bul. 84.
 waste, feeding poultry, Hawaii Bul. 81.
- Taxation—
 assessment and collection of farm taxes, Kans. Bul. 283.
 assessments and land classification, Mo. Bul. 421.
 delinquency, Mont. Bul. 382.

Taxation—Continued.

- delinquency, and forfeited land, Ark. Bul. 370.
- delinquency, rural, Oreg. Bul. 371.
- farm, inequalities of assessments, Md. Bul. 435.
- inequalities in the Arkansas property tax assessment system, Ark. Bul. 369.
- Maryland, revenue analyses, Md. Bul. 438.
- revenue from, effect of Homestead exemption act, S. C. Bul. 323.
- rural property, problems, Ala. Bul. 247.
- trends, and farm values, Mich. Spec. Bul. 301.
- trends, as related to agriculture, Mich. Spec. Bul. 301.
- uncollected property taxes, Mont. Bul. 382.

Temperature—

- and relative humidity, effect on mildew of roses, N. Y. (Cornell) Mem. 223.
- and yield of cotton, Ark. Bul. 376.
- effect on butter, Mo. Bul. 408.
- effect on growth and composition of pasture grasses, Mo. Res. Bul. 299.
- effect on photoperiodic response of spinach, N. Y. (Cornell) Mem. 218.
- high tolerance of forest trees, Minn. Tech. Bul. 141.
- low, and fruit set of apple, Ill. Bul. 473.

Tenancy—

- economic and social characteristics, Okla. Bul. 239.
- farm, in Oklahoma, Okla. Bul. 239.
- farm, in Pennsylvania, Pa. Bul. 383.
- farm, legal aspects, Ill. Bul. 465.
- farm situation in Arkansas, Ark. Bul. 384.
- sugarcane farms, social study, La. Bul. 320.

See also Leases; Renting.

Tenants—

- and landlord relationships in renting, Mo. Bul. 409.
- farm. ability to pay rent, and farm productivity, Mo. Res. Bul. 308.
- farm. and landlord relationships, Okla. Bul. 241.
- farm, economic and social status, Okla. Bul. 239.
- sharecroppers, S. C. Bul. 328.

Tenure, land. *See* Land tenure.

Teosinte, origin, Tex. Bul. 574.

Termite damage, preventives and remedies, Ark. Bul. 385.

Terpene ethers, in pyrethrum and rotenone fly sprays, Del. Bul. 217.

Terraces, for soil and water conservation, Iowa Bul. P11.

Terre Haute producers market, prices and receipts, fruit and vegetables, Ind. Bul. 455.

Tetranychidae, of Connecticut, Conn. (State) Bul. 431.

Textiles, household, consumer demand, Mo. Res. Bul. 301.

Three-cornered alfalfa hopper, La. Bul. 323.

Thyroxine, effect on yield and composition of milk, Mo. Res. Bul. 317.

Timber—

- farming, Cloquet District, Minn. Bul. 343.
- lands, financing fire protection, Oreg. Bul. 384.
- lands. *See also* Woodlands.

Time, use in home management, N. Y. (Cornell) Bul. 734.

Timothy—

- culture, and fertilizer experiments, Ohio Bul. 603.
- hay, and alfalfa hay, as feed for dairy cows, compared, Va. Tech. Bul. 65.
- hay, corn silage, and concentrates, feeding cows, Pa. Bul. 395.
- hay, cutting experiments, and composition, Ohio Bul. 603.
- hay, milk-producing value, Va. Tech. Bul. 65.
- nutrients, conservation as silage and hay, Vt. Bul. 459.

Tires—

- rubber, for farm machines, Iowa Bul. P9.
- rubber, for home-made carts and trailers, S. Dak. Bul. 333.
- tractor, pneumatic, life and cost of service, Iowa Bul. 382.

Tobacco—

- area, southern Maryland, land utilization, Md. Bul. 424.
- blackfire, control, and fertilizer treatment for, Ky. Bul. 390.
- blue mold, Conn. (State) Bul. 443; Fla. Bul. 330, 342; Va. Bul. 324.
- Burley, prices and sales, Ky. Bul. 409.
- calcium deficiency, Conn. (State) Bul. 422.
- composition, effect of form of nitrogen supplied, Conn. (State) Bul. 442.
- curing, cost, Ky. Bul. 406.
- curing, temperature and humidity, effect on quality, Ky. Bul. 407.
- diseases, Conn. (State) Bul. 422.
- diseases and decays, Conn. (State) Bul. 432.
- downy mildew, Conn. (State) Bul. 433; Fla. Bul. 330; Va. Bul. 324.
- downy mildew, control with paradichlorobenzene, Conn. (State) Bul. 433; Fla. Bul. 342.
- farming, flue-cured, economics of Va. Tech. Bul. 66.
- farms, farm management, Va. Tech. Bul. 64.
- farms, farm management aspect of soil conservation, Va. Bul. 327.
- fermentation, yeast in, Conn. (State) Bul. 433.
- fertilizer constituents, losses by leaching, Conn. (State) Bul. 422.
- fertilizers, top dressing, Conn. (State) Bul. 422.
- harvesting Havana seed, Conn. (State) Bul. 422, 433.
- insects, Conn. (State) Bul. 422, 433.

Tobacco—Continued.

- leaves, cured, chemical composition, Conn. (State) Bul. 422, 433.
- mosaic, Wis. Bul. 445.
- mosaic, virus protein, Mo. Res. Bul. 297.
- plant, chemical investigations, Conn. (State) Bul. 442.
- prices and sales, seasonal movements, Ky. Bul. 409.
- seed production, Wis. Bul. 448.
- seed, time of harvesting, Conn. (State) Bul. 422, 433.
- soybean oil meal on, Conn. (State) Bul. 422.
- substation, report, Conn. (State) Bul. 422, 433.
- varieties and strains, Wis. Bul. 448.
- white Burley, cost of curing, Ky. Bul. 406.
- white Burley, effect of temperature and humidity in curing, Ky. Bul. 407.
- wireworm injury, Ky. Bul. 398.
- Tomato leaf mold, control in greenhouses, Mass. Bul. 361.
- Tomato plant, composition, effect of potassium and nitrogen, N. H. Tech. Bul. 73.
- Tomatoes—
 - canned, grade, quality and price, retail, Ind. Bul. 438.
 - canning, growing, Ind. Bul. 442.
 - canning, production, economic analysis, Ind. Bul. 456.
 - canning, root knot nematode on, Ind. Bul. 434.
 - canning, use of calcium, N. Y. State Tech. Bul. 252.
 - caterpillars on, Calif. Bul. 644.
 - culture, Ga. Bul. 206; Ind. Bul. 442.
 - diseases, seasonal occurrence, Fla. Bul. 345.
 - fertilizer experiments, Pa. Bul. 393.
 - Fusarium* wilt studies, Mo. Res. Bul. 311.
 - growing for canning factory, Ind. Bul. 442.
 - hybrids, immunity to *Fusarium lycopersici*, Mo. Res. Bul. 311.
 - nailhead spot, Fla. Bul. 332.
 - potato and tomato psyllid on, Colo. Bul. 454.
 - production, improved methods, Ga. Bul. 206.
- Tompkins County, economic study of farming, N. Y. (Cornell) Bul. 728.
- Toombs County, farming conditions, Ga. Bul. 202.
- Town-country communities, Lansing Region, Mich. Spec. Bul. 302.
- Tractors—
 - engines, diesel, Wash. Pop. Bul. 156.
 - power costs, Iowa Res. Bul. 258; Nebr. Bul. 324.
 - tests, Nebr. Bul. 321, 325.
 - tires, pneumatic, service and cost, Iowa Bul. 382.
- Trade barriers, and State regulations, Iowa Corn Res. Inst. Cont. vol. 1, no. 2.

Trailers, rubber tired, S. Dak. Bul. 333.

Tree fruit varieties for Kentucky, Ky. Bul. 394.

Trees—

- coniferous, forest plantings, Pa. Bul. 394.
- coniferous, seed testing, N. Y. State Tech. Bul. 255.
- for Washington farms, Wash. Pop. Bul. 159.
- forest, calcium content of foliage, N. Y. (Cornell) Mem. 228.
- forest, temperature tolerance, Minn. Tech. Bul. 141.
- growth and soil morphology, studies in Adirondacks, N. Y. (Cornell) Mem. 229.
- hardwood, resources and industries, Ark. Bul. 404.
- hardwood, volume tables, Ark. Bul. 396.
- See also *Arborvitae*; *Elms*; *Fir*; *Fruit trees*; *Hickory*; *Oak*; *Pine*; *Tung trees*.
- Trialeurodes vaporariorum*, *Encarsia formosa* as parasite, Mich. Tech. Bul. 173.
- Triatoma sanguisuga*, encephalomyelitis virus isolated from, Kans. Tech. Bul. 50.
- Trichogramma* spp., as parasite of sugarcane borer, La. Bul. 323.
- Trichopoda pennipes*, parasite on *Anasa tristis*, Conn. (State) Bul. 440.
- Trifolium repens*, and pasture improvement, N. J. Bul. 676.
- Tripsecum*, origin, Tex. Bul. 574.
- Triticum monococcum* and *T. aegilopoidees*, mutants and linkage studies, Mo. Res. Bul. 298.
- Trucks—
 - marketing farm products, Ind. Bul. 443, 446.
 - routes for milk transportation, reorganization, N. H. Bul. 325.
- Tung trees, flowering, fruiting, yield and growth, Fla. Bul. 343.
- Turkeys—
 - breastbones, effect of roosting, Wyo. Bul. 232.
 - confinement, and prevention of parasitic diseases, Va. Bul. 323.
 - feeding cereal grains, S. Dak. Bul. 380.
 - feeding, protein rations, Ind. Bul. 448.
 - feeding vegetable protein concentrates, Mo. Bul. 414.
 - finishing rations, Wash. Bul. 372.
 - fishy flavor in meat, feeding menhaden fish meal, Va. Bul. 321.
 - management, Okla. Bul. 236.
 - marketing, Del. Bul. 218; Md. Bul. 429.
 - parasitic diseases, prevention by confinement, Va. Bul. 323.
 - production, Okla. Bul. 236.
 - protein in starting and growing rations, Ind. Bul. 448.
 - vegetable protein concentrates, for raising, Mo. Bul. 414.
- Tylocladia fragariae*, Ky. Bul. 389.

- Type of farming areas—
and ranching areas, N. Mex. Bul. 261, 267.
farm management and price conditions, Ind. Bul. 452.
- Types of farming—
Georgia, Toombs County, Ga. Bul. 202.
Maryland, Md. Bul. 432.
Minnesota, and agricultural production, Minn. Bul. 347.
New Mexico, N. Mex. Bul. 261, 267.
Tennessee, Tenn. Bul. 169.
West Virginia, W. Va. Bul. 292.
- Udder staphylococci, characteristics, Conn. (Storrs) Bul. 231.
- Uinta Basin, types of farms, and farm organization, Utah Bul. 285.
- Ultraviolet-light method for selecting potatoes free from bacterial ring rot, Mont. Bul. 886.
- Union Parish, farm management survey, La. Bul. 317.
- Urea, nitrogen of, utilization by chicks, Nebr. Res. Bul. 120.
- Urediospores of crown rust of oats, longevity, Ark. Bul. 391.
- Utah agricultural experiment station, biennial report, Utah Bul. 294.
- Utah County, business analysis of farms, Utah Bul. 289.
- Vallisneria*, nutritive value and chemical composition, Minn. Tech. Bul. 136.
- Vegetable auctions, Eastern Seaboard States, N. Y. (Cornell) Bul. 737.
- Vegetable farming, economic studies, N. Y. (Cornell) Bul. 715.
- Vegetable growers, economic situation, N. J. Bul. 660.
- Vegetables—
canned, household production and purchase, relative economy, Vt. Bul. 449.
fertilizer, lime and manure experiments, Conn. (State) Bul. 439.
home-preparation for freezer-locker, Tenn. Bul. 168.
iodine in, Tex. Bul. 595.
manure experiments, Ark. Bul. 392.
marketing through cooperative canning associations, Oreg. Bul. 377.
prices and receipts, Terre Haute market, Ind. Bul. 455.
production, economic situation of growers, N. J. Bul. 660.
production, soil management for, Conn. (State) Bul. 439.
wax emulsions for, N. Y. (Cornell), Bul. 723.
wholesale and jobbing firms, N. Y. (Cornell) Bul. 721.
- Vegetation, range, composition and utilization, Tex. Bul. 586.
- Vermont agricultural experiment station, report, Vt. Bul. 452, 463.
- Vessel end walls, characteristics in herbaceous angiosperms, Calif. Hilgardia, vol. 13, no. 5.
- Vetch, as winter crop, Miss. Bul. 345.
- Village families—
housing, Vt. Bul. 469.
income and expenditures, Vt. Bul. 450.
- Virus diseases, potatoes, aphids in transmission, Maine, Bul. 403.
- Virus protein, of mosaic disease of tobacco, Mo. Res. Bul. 297.
- Vitamin—
content, cabbage and onions, effect of winter storage, Mont. Bul. 379.
content, green string beans, Mont. Bul. 373.
content, peas, cooked or canned, Mont. Bul. 381.
constituents of milk, Wis. Bul. 447.
supplements, for growing and fattening pigs, N. Y. (Cornell) Bul. 730.
- Vitamin A—
content of apples, Wash. Bul. 375.
deficient rats, changes in pituitary glands, Ohio Bul. 610.
requirements of chickens, Tex. Bul. 583.
supplement, feeding dairy cattle, Mass. Bul. 357.
See also Provitamin A.
- Vitamin B₆ content, pinto beans, N. Mex. Bul. 268.
- Vitamin C—
and arthritis, Mass. Bul. 374.
content of apples, Wash. Bul. 375.
- Vitamins—
in feeding of laying hens, Miss. Bul. 330.
See also Avitaminosis.
- Vocational agricultural students entering farming, Pa. Bul. 385.
- Walls—
moisture accumulation, and fill-type insulation, Iowa Res. Bul. 271.
rammed earth, paints and plaster for, S. Dak. Bul. 336.
- Walnut caterpillar, history and control, Mo. Bul. 418.
- Warblers, transient, of New Jersey, N. J. Bul. 678.
- Washing machines, installment credit, N. Y. (Cornell) Bul. 743.
- Washington agricultural experiment station, report, Wash. Bul. 384, 394.
- Washington County, Arkansas, school services, Ark. Bul. 398.
- Washington County, Maryland, community organization, Md. Bul. 437.
- Water—
absorption by cucumber, effect on root temperature, Mo. Res. Bul. 309.
and nitrate leachings, and fertilizer nitrogen, Conn. (State) Bul. 429.
and soil losses, effect of rainfall, cropping, and cultural methods, Ark. Bul. 380.
conduction from shallow water tables, Calif. Hilgardia, vol. 12, no. 6.
conservation, contour farming for, Iowa Bul. P11.
conservation experiments, Spur, Tex. Bul. 587.

Water—Continued.

- conservation, vs. erosion, Mont. Bul. 380.
- drinking, fluorine in, bone filter for removing, Ariz. Tech. Bul. 81.
- drinking, iodine in, Tex. Bul. 595.
- flood, conservation, Mont. Bul. 380.
- groundwater supply, Eloy district, Ariz. Tech. Bul. 87.
- heaters, electric, for dairy farms, Ind. Bul. 447.
- intake, effect of soil type, slope, and surface conditions, Nebr. Res. Bul. 112.
- pollution, Raritan River, N. J. Bul. 659.
- requirements, range plants, Ariz. Tech. Bul. 80.
- resources for rice irrigation, Ark. Bul. 371.
- salts in, Big Horn River,, Wyo. Bul. 240.
- supply, farm, ponds for, Iowa Bul. P17.
- See also* Irrigation.

Watermelons—

- soluble solids, reducing sugars and sucrose, factors affecting, Calif. Hilgardia, vol. 13, no. 2.
- sugar content, Calif. Hilgardia, vol. 13, no. 2.

Wax emulsions for stored vegetables, N. Y. (Cornell) Bul. 723.

Weather—

- observations, fifty years, Ohio Bul. 608.
- records, fifty years, Colo. Bul. 456; Mass. Bul. 367.

Weeds—

- control, sodium dinitro-ortho-cresylate spray, Calif. Bul. 634.
- Michigan, description, control, Mich. Spec. Bul. 304.
- See also* Bindweed; Knapweed; Peppergrass; Whitetop.

Welfare agencies, Mo. Res. Bul. 307.

Wenatchee-Okanogan district, fruit tree distribution, Wash. Bul. 369.

West Virginia agricultural experiment station report, W. Va. Bul. 298.

Wet-milling industry, effect of Agricultural Adjustment Act, Iowa Corn Res. Inst. Cont., vol. 1, no. 2.

Wheat—

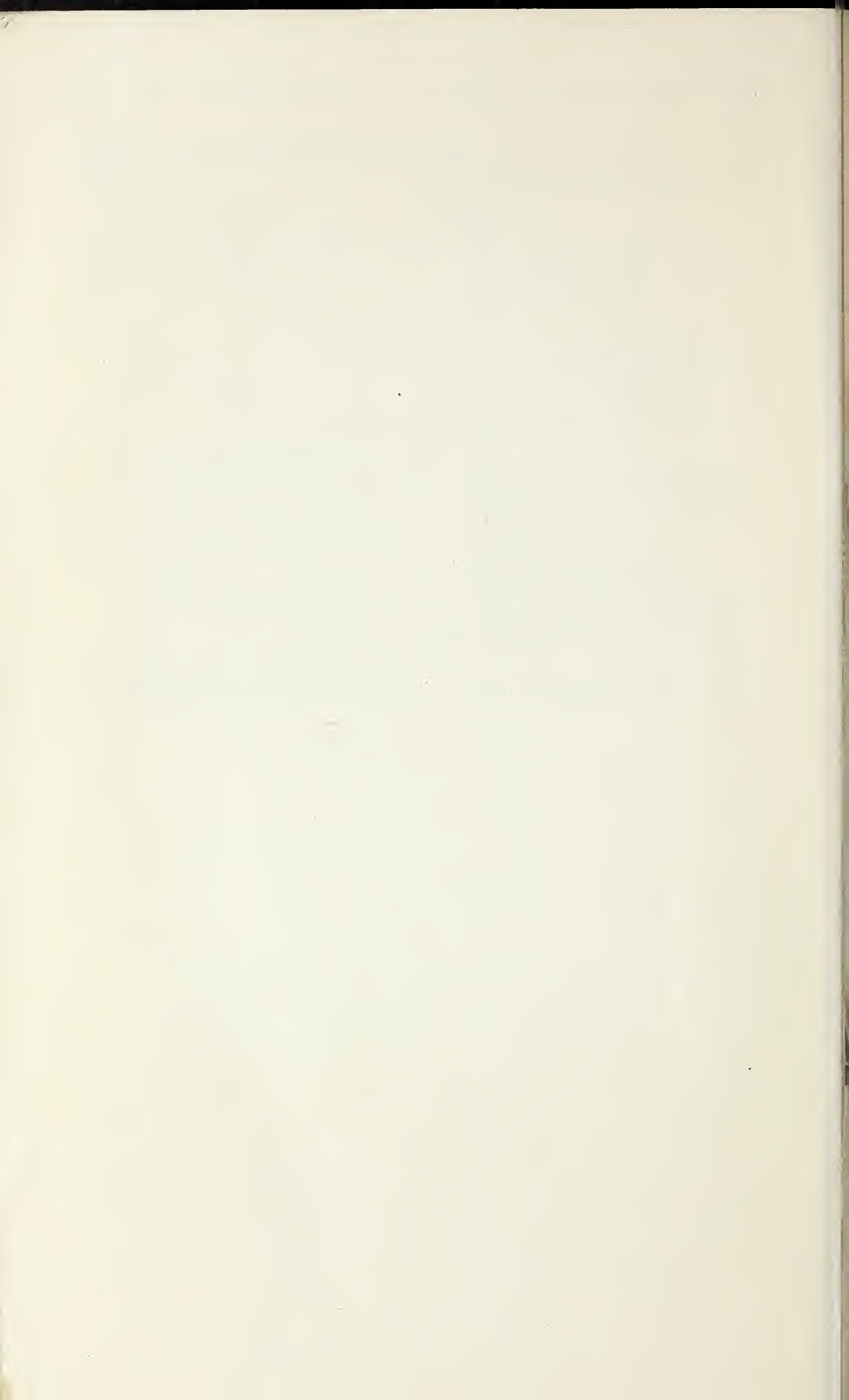
- area, farm performance, S. Dak. Bul. 343.
- bran and shorts, effect on body weight and feather growth in chicks, Nebr. Res. Bul. 119.
- bunt. *See* Bunt.
- byproducts, feeding pigs, Ohio Bul. 807.
- farms, dry-land, land use and production costs, Oreg. Bul. 373.
- fields, preharvest sampling, Iowa Res. Bul. 273.
- hard, for white and whole wheat bread, Wyo. Bul. 242.
- hard red winter and hard red spring, compared, Kans. Bul. 289.
- hessian fly, and seeding time, Ind. Bul. 440.

Wheat—Continued.

- hessian fly, Marquillo wheat resistant to, Kans. Tech. Bul. 49.
- plant, chemical analysis, Kans. Tech. Bul. 47.
- producing area, Area IV, adjustment study, Mont. Bul. 377.
- region, farming systems, and practices, and soil conservation and income, Wash. Bul. 374.
- seed treatment for stinking smut, Nebr. Res. Bul. 110; Oreg. Bul. 363.
- spring, varieties, Nebr. Bul. 328; S. Dak. Bul. 342.
- stinking smut. *See* Bunt.
- varieties, Ill. Bul. 460.
- varieties for North Carolina, N. C. Bul. 328.
- variety tests, Nebr. Bul. 326.
- winter, effect of bunt and seed treatment, Nebr. Res. Bul. 110.
- winter, physiology of plant, Kans. Tech. Bul. 47.
- winter, varieties, Ill. Bul. 460; Nebr. Bul. 326.
- wireworms, biology and control, N. Y. (Cornell) Bul. 738.
- Wheeler County, soils, Tex. Bul. 581.
- Wheels, rubber tiring for farm machines, Iowa Bul. P9.
- White clover, variability, and pasture improvement, N. J. Bul. 676.
- White fly, greenhouse, aphelinid parasite on, Mich. Tech. Bul. 173.
- White fly, greenhouse, *Encarsia formosa* on, Mich. Tech. Bul. 173.
- White grubs, distribution and history, Ky. Bul. 401.
- White Leghorn pullets. *See* Pullets, White Leghorn.
- White pine. *See* Pine, white.
- White-throated wood rat, history and ecology, Ariz. Tech. Bul. 86.
- White tip of rice, and magnesium deficiency, Tex. Bul. 584.
- Whitetop seed, in droppings of cattle, Nev. Bul. 152.
- Wholesaling and jobbing firms, fruit and vegetables, N. Y. (Cornell) Bul. 721.
- Willamette Valley, soils, composition, rating, and conservation, Oreg. Bul. 365.
- Wilton, economic and social conditions, Conn. (Storrs) Bul. 230.
- Wine, table, commercial production, Calif. Bul. 639.
- Winery pomace, digestibility by sheep, Calif. Bul. 635.
- Wire, for concrete reinforcement, Colo. Bul. 452.
- Wireworms—
 - biology and control, review of literature, Pa. Bul. 392.
 - in bluegrass sod, Ky. Bul. 392.
 - on tobacco, Ky. Bul. 398.
 - wheat, control, N. Y. (Cornell) Bul. 738.

- Wisconsin agricultural experiment station, report, Wis. Bul. 443, 446, 449, 450.
- Women on farms—
and improvement of economic status of family, Miss. Bul. 346.
house planning, Oreg. Bul. 369.
- Wood finishes for floors, R. I. Bul. 276.
- Wood rat, white-throated, ecology, relation to grazing, Ariz. Tech. Bul. 86.
- Woodland products, marketing, N. H. Bul. 318.
- Woodlands—
management for bobwhite protection, Tex. Bul. 592.
of Kansas, Kans. Bul. 285.
See also Timber lands.
- Wool—
effect of breeding purebred rams on native ewes, N. C. Tech. Bul. 60.
production, Nev. Bul. 151.
silicon content, and dietary silicon, Ark. Bul. 375.
- Worcester milk market, Mass. Bul. 366.
- Yakima-Tieton irrigation district, economic conditions, Wash. Bul. 393.
- Yakima Valley—
agriculture, economic conditions, Wash. Bul. 377, 393.
reclamation of saline soils, Wash. Bul. 376.
- Yates County, land utilization, N. Y. (Cornell) Bul. 727.
- Yazoo-Mississippi Delta, sweetpotato production, Miss. Bul. 327.
- Yellow color of milk, measurement, N. J. Bul. 671.
- Yellow oxide of mercury and Semesan Bel, for potato seed treatment, compared, N. Y. State Bul. 694.
- Yellows—
cabbage, varieties resistant to, N. Y. State Bul. 689.
disease, lettuce and endive, N. Y. (Cornell) Bul. 742.
- Young people. *See* Youth, rural.
- Youth, rural—
out-of-school, farming by, Pa. Bul. 385.
out-of-school, high school and post high school records, Pa. Bul. 374.
problems, activities and interests, N. Dak. Bul. 293.
social and economic study, N. C. Bul. 324.
- Zea mays*—
morphology of the end walls in differentiating vessels, Calif. Hilgardia, vol. 13, no. 5.
See also Corn.
- Zinc—
deficiency, citrus, Fla. Bul. 335.
deficiency, peach, Fla. Bul. 344.
in soil, chemical status, Calif. Hilgardia, vol. 13, no. 1.
- Zinnias, varieties, field trials, Pa. Bul. 386.
- Zoning—
rural, in Corson County, S. Dak. Bul. 345.
rural, land classification for, Mo. Bul. 421.





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